The Johns Hopkins University

Conferring of Degrees
At the Close of the
112th Academic Year
May 26, 1988

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ORDER OF PROCESSION

MARSHALS

Edward J. Bouwer
Donald A. Cornely
Marc D. Donohue
Bruce R. Eicher
John W. Gryder
Bonnie J. Lake
Richard A. Macksey
Marion C. Panyan
Peter B. Petersen
A. J. R. Russell-Wood
Gerard H. Schlimm
Henry M. Seidel
Stella Shiber
I. William Zartman

THE GRADUATES

*

MARSHALS

Jerome B. Schneewind
Charles Roger Westgate

THE FACULTIES

*

MARSHALS

Robert E. Green
Owen M. Phillips

THE DEANS
MEMBERS OF THE SOCIETY OF SCHOLARS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

*

CHIEF MARSHAL

Nathaniel B. Thayer

THE CHAPLAINS
THE PRESENTERS OF THE HONORARY DEGREE CANDIDATES
THE HONORARY DEGREE CANDIDATES
THE PROVOST OF THE UNIVERSITY
THE CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

*

ORDER OF EVENTS

STEVEN MULLER

President of the University, presiding

* * *

PRELUDE

Suite of Nine Intrades, Sonatas, Bals and Sarabandes

JOHANN CHRISTOPH PEZEL (1639-1694)

*

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing after the Invocation

FESTIVE MARCHES

from "Belshazzar, Flioridante, Ezio, Saint Cecilia's Day, Rinaldo, Scipione"

GEORG FRIEDRICH HANDEL
(1685-1759)

La Mourisque

TIELMAN SUSATO
(?-1561)

*

THE PRESIDENT'S PROCESSION

Fanfare

WALTER PISTON
(1894-1976)

Marches from Judas Maccabaeus

GEORG FRIEDRICH HANDEL
(1685-1759)

*

INVOCATION

GRETCHEN VAN UTT

Chaplain
The Johns Hopkins University

*

THE NATIONAL ANTHEM

*

GREETINGS

GEORGE G. RADCLIFFE
Chairman of the Board of Trustees

*

PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

IAN CREESE
PAUL ALLEN EBERT
CHARLES EDWARD
NEIL HEIMAN
GORDON R. HENNIGAR
DUDLEY P. JACKSON
SUSHILA NAYAR
SIDNEY RAFFEL
BERNARD ROIZMAN
ROBERT D. SIMONI
HENRY S. SUSSMAN
LESLIE WEINER
DAVID G. WHITTINGHAM

SCHOLARS PRESENTED BY JOHN V. LOMBARDI
Provost of the University

*

THE FESTIVAL BRASS

ELLERY B. WOODWORTH, Conductor

EARLE OF OXFORD'S MARCH
from "THE BATTELL"
WILLIAM BYRD
(1543-1623)

*

CONFERRING OF HONORARY DEGREES

DANIEL J. BOORSTIN
NORMAN C. FRANCIS
SOHEI NAKAYAMA
FABIO ROVERSI-MONACO
JOHN E. SAWYER
J. WILLIAM FULBRIGHT

*

ADDRESS

J. WILLIAM FULBRIGHT
Former United States Senator

*

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS

Presented by

LLOYD ARMSTRONG, JR.

Dean, School of Arts and Sciences

* * *

BACHELORS OF CIVIL ENGINEERING
BACHELORS OF ELECTRICAL ENGINEERING
BACHELORS OF INDUSTRIAL ENGINEERING
BACHELORS OF MECHANICAL ENGINEERING
BACHELORS OF ARTS
BACHELORS OF SCIENCE IN BIOMEDICAL ENGINEERING
BACHELORS OF SCIENCE IN CHEMICAL ENGINEERING
BACHLORS OF SCIENCE IN CIVIL ENGINEERING
BACHELORS OF SCIENCE IN ELECTRICAL ENGINEERING
BACHELORS OF SCIENCE IN ENGINEERING MECHANICS
BACHELORS OF SCIENCE IN MATERIALS SCIENCE AND ENGINEERING
BACHELORS OF SCIENCE IN MATHEMATICAL SCIENCES

Presented by

V. DAVID VANDELINDE

Dean, G.W.C. Whiting School of Engineering

* * *

PERFORMER'S CERTIFICATES
BACHELORS OF MUSIC

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

BACHELORS OF SCIENCE

Presented by

CAROL J. GRAY

Dean, School of Nursing

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

MASTERS OF SCIENCE
MASTERS OF ARTS IN TEACHING
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

PROFESSIONAL STUDIES CERTIFICATE
MASTERS OF MUSIC
ARTISTS DIPLOMA

Presented by
ROBERT O. PIERCE
Director, Peabody Conservatory of Music

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by
DONALD A. HENDERSON
Dean, School of Hygiene and Public Health

* * *

MASTERS OF ARTS IN INTERNATIONAL AFFAIRS
MASTERS OF INTERNATIONAL PUBLIC POLICY
MASTERS OF ARTS

Presented by
GEORGE R. PACKARD
Dean, School of Advanced International Studies

* * *

MASTERS OF ARTS

Presented by
RICHARD S. ROSS
Dean, School of Medicine

* * *

MASTERS OF SCIENCE
MASTERS OF CHEMICAL ENGINEERING
MASTERS OF CIVIL ENGINEERING
MASTERS OF MECHANICAL ENGINEERING
MASTERS OF ARTS
MASTERS OF SCIENCE IN ENGINEERING

Presented by
V. DAVID VANDELINDE
Dean, G.W.C. Whiting School of Engineering

* * *

MASTERS OF ARTS

Presented by
LLOYD ARMSTRONG, JR.
Dean, School of Arts and Sciences

* * *

DOCTORS OF EDUCATION

Presented by
STANLEY C. GABOR
Dean, School of Continuing Studies

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF MUSICAL ARTS

Presented by

ROBERT O. PIERCE

Director, Peabody Conservatory of Music

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by

DONALD A. HENDERSON

Dean, School of Hygiene and Public Health

* * *

DOCTORS OF PHILOSOPHY

Presented by

GEORGE R. PACKARD

Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by

RICHARD S. ROSS

Dean, School of Medicine

* * *

DOCTORS OF PHILOSOPHY

Presented by

V. DAVID VANDELINDE

Dean, G.W.C. Whiting School of Engineering

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY

Presented by

LLOYD ARMSTRONG, JR.
Dean, School of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES

STEVEN MULLER
President of the University

*

BENEDICTION

CLYDE R. SHALLENBERGER
Director
The Chaplaincy Service
The Johns Hopkins Hospital

*

RECESSIONAL

March

C.P.E. BACH
(1714-1788)

Water Music

GEORG FRIEDRICH HANDEL
(1685-1759)

The audience is requested to remain standing after the Benediction until the principals, officials, members of the faculties, and the graduates have left the area.

THE JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences, or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the Commencement ceremony, the Commemoration Day ceremony, or on some similar occasion. At that time, they are presented with a certificate and a medallion with a black and gold ribbon. The Scholars wear the medallion around the neck and they also wear academic costumes.

Today we honor 13 new members who have been elected this year to the Johns Hopkins Society of Scholars.

Dr. Ian N. R. Creese is professor of neuroscience and co-director of the Center for Molecular and Behavioral Neuroscience at Rutgers—The State University of New Jersey. He was a postdoctoral fellow in the Department of Pharmacology in the School of Medicine from 1973 to 1977. Dr. Creese has focused his research on the link between behavior and specific neurotransmitters. Following the publication of classic papers on the role of dopamine and the effects of other psychoactive drugs, he was able to identify two distinct types of dopamine receptors. Dr. Creese's work has direct application in the understanding of supersensitivity to neuroleptic drugs and to the alteration in synaptic transmission with aging.

Dr. Paul Allen Ebert is director of the American College of Surgeons. He was a postdoctoral fellow in the Department of Surgery in the School of Medicine from 1958 to 1960 and from 1962 to 1966. One of the world's outstanding pediatric heart surgeons, Dr. Ebert has played a major role in the development of surgery in this country. He has contributed extensively to the literature and chaired departments at two major institutions before becoming director of the American College of Surgeons.

Dr. Charles Edwards is professor of biological sciences at the State University of New York at Albany. He was a postdoctoral fellow in the Department of Ophthalmology in the School of Medicine from 1955 to 1958. Dr. Edwards has concentrated his research on the electroneurophysiology of single cells, where he made signal contributions to our understanding of the processes that control and modify electrical activity of nerve and muscle. In addition to his laboratory research, he is noted for his role in international education and as the author of highly regarded critical reviews that are especially valued for their historical perspective.

Dr. Neil Heiman is director of technology at Seagate Magnetics in Fremont, California. He was a postdoctoral fellow in the Department of Physics in the School of Arts and Sciences from 1969 to 1970. Dr. Heiman developed important techniques using muon spin resonance to study the magnetic behavior of impurities in solids. His investigations have been especially useful in describing the properties of ultrathin magnetic films, a field of intense commercial interest.

Dr. Gordon R. Hennigar is professor and chair of the Department of Pathology at the Medical University of South Carolina in Charleston. He was a postdoctoral fellow in the Department of Pathology in the School of Medicine from 1948 to 1950. Dr. Hennigar is a prominent diagnostic pathologist whose research focus has been on chemical and drug toxicity. He also has taken a lead role in the development of forensic pathology in a number of eastern states and is active in many professional societies.

Dr. Dudley P. Jackson is professor of medicine at Georgetown University School of Medicine in Washington, D.C. He was a postdoctoral fellow in the Department of Medicine in the School of Medicine from 1947 to 1949 and from 1951 to 1954. Dr. Jackson began his work in hemotology with studies of the effects of radiation injury. His later work, which has been recognized by a number of important awards, has concentrated on blood coagulation mechanisms and the role of platelets.

Dr. Sushila Nayar is president of the Kasturba Health Society and director of the Mahatma Gandhi Institute of Medical Sciences in New Delhi, India. She was a postdoctoral fellow in the Department of Maternal and Child Health in the School of Public Health in 1950. A central figure in the development of health care programs and educational institutes in India for over four decades, Dr. Nayar established many fundamental health programs—including the treatment and control of malaria, venereal diseases, tuberculosis, and leprosy—during her service as Minister of Health. She also was active in the establishment of emergency medical services in New Delhi. The founder of the Mahatma Gandhi Institute of Medical Sciences, which brings medical training to the rural areas, Dr. Nayar continues to be active in programs of the Institute.

Dr. Sidney Raffel is professor emeritus in the Department of Dermatology at Stanford University School of Medicine. He was a postdoctoral fellow in the Department of Immunology in the School of Public Health from 1933 to 1935. Dr. Raffel conducted early work on the immunological specificity of tissue and cell antigens, including investigations of a group of heat-stable haptens of organs and tissues. His studies delineated the relationship between hypersensitivity and immunity in tuberculosis and related diseases. Dr. Raffel also has been an active participant in the development of several national committees concerned with research in allergies and infectious diseases.

Dr. Bernard Roizman is professor of virology and chair of the Department of Molecular Genetics and Cell Biology at the University of Chicago. He was a postdoctoral fellow in the Department of Microbiology in the School of Public Health from 1956 to 1958. Dr. Roizman is one of the world's outstanding virologists. Following his early work with poliomyelitis, he has studied the affects of the herpes virus with special emphasis on its relationship to cancer. Dr. Roizman's educational efforts include editorships of several journals and organizational roles in a number of international meetings.

Dr. Robert D. Simoni is professor in the Department of Biological Sciences at Stanford University. He was a postdoctoral fellow in the Department of Biology in the School of Arts and Sciences from 1966 to 1971. Dr. Simoni is a leading contributor to our understanding of cellular transport. He has studied the properties of these processes for a number of systems, with special interest in sugar and cholesterol transport.

Dr. Henry Sussman is professor and director of the Program in Comparative Literature at the State University of New York at Buffalo. He was a postdoctoral fellow in the Humanities Center in the School of Arts and Sciences from 1976 to 1978. Dr. Sussman is an expert on literary comparisons and on the use of language. Wide-ranging in his approach to literature, he has written and lectured on authors from Hegel and Hawthorne to Kierkegaard and Kafka.

Dr. Leslie P. Weiner is professor and chair of the Department of Neurology at the University of Southern California School of Medicine. He was a postdoctoral fellow in the Department of Neurology in the School of Medicine from 1962 to 1965 and from 1967 to 1969. A leader in the field of neurology, Dr. Weiner recently has applied molecular biological techniques to the study of chronic viral infection of the nervous system and to chronic demyelination with great success. He has served the academic community as a member of the advisory board of a number of national organizations concerned with neurology.

Dr. David G. Whittingham is director of the MRC Experimental Embryology and Teratology Unit at MRC Laboratories in Carshalton, United Kingdom. He was a postdoctoral fellow in the Department of Population Dynamics in the School of Public Health from 1966 to 1967. Dr. Whittingham has made numerous fundamental contributions to our understanding of the cellular and molecular processes involved in fertilization, embryogenesis, and oviductal function. His description of the role of energy sources in gamete differentiation and his development of *in vitro* preservation techniques for mammalian embryos continue to have profound impact on the agricultural and reproductive sciences as well as on genetics and developmental biology.

Citation Read by

WILLIAM W. FREEHLING

in Presenting

DANIEL JOSEPH BOORSTIN

for the Degree of Doctor of Humane Letters

May 26, 1988

Historian, educator, lawyer, and bibliophile, you have dedicated your life to the search for meaning in our nation's past. During four decades of distinguished scholarship, you have communicated the sense of wonder, adventure, and exploration that underlies our history as Americans.

Perhaps the root of your sensitivity to the meeting of cultures and peoples that is at the heart of American history lies in your personal experience as the son of Russian immigrants living in Atlanta and Tulsa during the first decades of this century.

After earning a bachelor's degree summa cum laude from Harvard University in 1934, and armed with a Rhodes Scholarship, you crossed the Atlantic to Oxford University. From that institution, you received first-class honors and degrees in jurisprudence and civil laws in 1936 and 1937.

That youthful experience of observing your homeland from afar deepened the comparative approach to American history that would characterize such widely admired books as the three-volume work, *The Americans,* for which you received Columbia University's Bancroft Prize in 1959, the Francis Parkman Medal of the American Society of Historians in 1966, and the Pulitzer Prize in history in 1974.

The Discoverers, your 1983 best-selling chronicle of our search for knowledge, has been called a remarkable history, full of dramatic tension, delight, charm, and entertainment.

You were professor of history at the University of Chicago for twenty-five years, visiting lecturer at universities throughout the world, and director of the Smithsonian Institution's National Museum of History and Technology. In 1975, the twin paths of your career as a historian and educator converged in a post that seemed to have been created with you in mind: Librarian of Congress. What better place for someone who, in the words of Supreme Court Justice Felix Frankfurter, "knows books, loves books, and makes books."

The success of your effort to humanize the citadel on Capitol Hill was evident in the near-doubling of the number of people who used it. Beyond numbers, your stewardship there provided the nation with a visible model of someone for whom the stacks of faceless documents are vibrantly alive, resonating with the secret of our identity.

Daniel Joseph Boorstin, in recognition of your lifelong celebration of our nation's past, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

RICHARD S. ROSS

in Presenting

NORMAN CHRISTOPHER FRANCIS

for the Degree of Doctor of Humane Letters

May 26, 1988

Lawyer, educator, and civic leader, you are admired for your efforts to improve the quality of education at all levels and for your leadership of the nation's only Catholic university with a predominantly black enrollment.

Throughout your distinguished career in education, four presidential administrations have sought your guidance and counsel. Most recently, you served as a member of the National Commission on Excellence in Education, whose findings, published in the report "A Nation at Risk," alerted the American public to the urgent need for educational reform in the nation's school systems.

During twenty years as president of Xavier University of Louisiana, you have guided that institution through a period of great physical and academic expansion. Today, Xavier can claim to be first among the nation's universities in placing black students in medical and health-related professional schools. At Johns Hopkins, we have looked to your university's innovative Project SOAR, a nationally recognized transition program for high school students preparing to enter college, as the model for the Summer Scholars Program of the Hopkins-Dunbar Project.

The leadership skills you have demonstrated at Xavier, where you received a bachelor's degree in 1952 before earning a doctor of jurisprudence degree from Loyola University Law School in 1955, have also benefited numerous other academic and civic organizations. You have served as president of the United Negro College Fund and as chairman of the board of the Southern Association of Colleges and Schools and of the Educational Testing Service, to name only a few.

Your community also knows you as an articulate spokesperson and supporter, from your days as a negotiator during the struggle for civil rights to your current service as chairman of the board of Liberty Bank & Trust, chairman of the New Orleans Aviation Board, and member of the advisory board of the Times Picayune/States-Item Publishing Company.

Norman Christopher Francis, in recognition of your lifelong dedication to educational excellence for all, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

GEORGE R. PACKARD

in Presenting

SOHEI NAKAYAMA

for the Degree of Doctor of Humane Letters

May 26, 1988

Business leader and educator, you have made immeasurable contributions to the educational system of your country and have been a dedicated supporter of efforts in the United States to enhance Japanese-American understanding and cooperation.

During a distinguished career spanning more than four decades at the Industrial Bank of Japan, where you became chairman of the board in 1968, you joined other Japanese leaders in spearheading one of the most extraordinary economic successes in modern history. Since 1984, you have served as the bank's special adviser and as a statesman in your nation's political and economic affairs.

Beyond technological and economic achievement, the vision you hold for your country has extended to revitalizing its educational system and fostering a more international outlook among its people. Toward that goal you have worked untiringly as chairman of the Prime Minister's Commission on Education Reform and as the founding chairman of the board of the International University of Japan.

Now entering its seventh year, the university you founded, with its international faculty welcoming students from Japan, the United States, Southeast Asia, Europe, and Africa, is the first institution of its kind in Japan and the embodiment of your dream to create a truly international-minded nation. The Johns Hopkins University is proud of the school's exchange agreement with our School of Advanced International Studies, and of the fact that its first American graduate was an alumnus of SAIS. We are also grateful for your generous support of the Reischauer Center for East Asian Studies.

Sohei Nakayama, in recognition of your significant contributions to international education and to improved understanding between our two nations, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa*.

Citation Read by

ADRIAN LYTTELTON

in Presenting

FABIO ALBERTO ROVERSI-MONACO

for the Degree of Doctor of Humane Letters

May 26, 1988

Lawyer, scholar, and educational leader, you come to Johns Hopkins today as an eminent constitutional lawyer and as head of one of Europe's oldest and greatest academic institutions, the University of Bologna.

As we join you in celebrating the 900th anniversary of Bologna's venerable tradition as a center of learning, we also are proud to celebrate more than three decades of friendship between our two institutions. Indeed, it was through the support and generosity of the University of Bologna that in 1955 the fledgling Bologna Center of the School of Advanced International Studies found its first home in borrowed classrooms.

You have combined a distinguished academic career at the University of Bologna with a life of service to your country. For almost twenty years before your appointment as rector in 1985, you served as professor of constitutional law. You also have been a valued adviser to the Italian government, outlining the legal issues involved in the privatization of Italy's industries and services, developing proposals to improve its health conditions, and assisting in the reform of its educational system. The title you hold of Grand Officer of the Republic of Italy, the highest honor your nation can bestow, attests to your achievements.

Fabio Alberto Roversi-Monaco, in admiration of your scholarship and in gratitude for your friendship, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

ELIZABETH CROPPER

in Presenting

JOHN EDWARD SAWYER

for the Degree of Doctor of Humane Letters

May 26, 1988

Teacher, scholar, and college and foundation president, you are esteemed for your thoughtful reflections on the past, present, and future of our nation, and for your support of the intellectual endeavors that will prepare us for the twenty-first century.

For four decades, as an economic historian at Harvard and Yale universities, and as president of Williams College and the Andrew W. Mellon Foundation, your professional life has been spent in the service of education and scholarship.

Indeed, few institutions and individuals in the United States who are engaged in the arts, higher education, medicine, public health, or the environment, have failed to benefit from the institution you headed for twelve years: the Andrew W. Mellon Foundation. Johns Hopkins is no exception.

Look in front of you and see the Milton S. Eisenhower Library, whose work to preserve the records of our intellectual life you helped support. Look behind you at Gilman Hall, the seat of the humanities at this university, where scholars are able to contribute to the intellectual discourse of our time in part because of the foundation's generosity. Look now toward the Medical Institutions in East Baltimore and see the young researchers whose explorations into unknown scientific territory you have encouraged.

The new approaches you championed to meet the changing conditions in our society while president of the Andrew W. Mellon Foundation also characterized your twelve-year tenure as president of your alma mater, Williams College, during the 1960s and early 1970s. The diversification of its student body —including the admission of women—and of its curriculum—including the study of societies beyond Western Europe and North America—reflected the breadth of your vision.

John Edward Sawyer, in gratitude for the support you have given to our nation's institutions and for your faith in the promise of its artists, scholars, and researchers, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

Citation Read by

FRANKLIN W. KNIGHT

in Presenting

JAMES WILLIAM FULBRIGHT

for the Degree of Doctor of Humane Letters

May 26, 1988

Lawyer, statesman, educator, and citizen of the world, your name is synonymous with international understanding and cooperation. Your leadership in the Congress of the United States was characterized by rare insight, unfailing courage, and the unshaken belief that peace among the nations of this world is not the result of parochial outlooks or the quest for superiority but of open communication and a perceptive understanding of divergent cultures and aspirations.

The origin of your lifelong commitment to international education lies in your own experience as a Rhodes Scholar at Oxford University, where you earned bachelor's and master's degrees with honors in history and political science from 1925 to 1931. After receiving your law degree with distinction from George Washington University and following several years as a professor of law and later president of the University of Arkansas, in your native state, you embarked on a distinguished career in Congress. As a representative from 1942 to 1944, and then as a senator until 1974, you made enduring contributions to peace and international understanding.

The pioneering educational exchange program you initiated in 1946 and that bears your name—the Fulbright Program—embodies your philosophy of international understanding. Since its inception, more than 168,000 students and scholars from 120 nations have been enriched by the experience of living, studying, and developing friendships with individuals in cultures other than their own. Johns Hopkins has benefited directly from your support of international education since you were a member of the founding board of this university's School of Advanced International Studies.

Your name is also associated with another instrument of peace, the United Nations, for it was the Fulbright Resolution of 1943, introduced shortly after your election to the House of Representatives, that eventually led to the creation of this international body.

From 1949 until 1974, as a member and then chairman of the Senate Committee on Foreign Relations, you tackled some of the most difficult and painful issues in post-war American foreign policy. On the brink of the Cold War and of the national agony of our involvement in Southeast Asia, you spoke out early and eloquently, a voice calling for balance, understanding, and the responsible use of power.

James William Fulbright, in recognition of your distinguished and courageous contributions to the search for world peace and for your support of young scholars everywhere, The Johns Hopkins University is proud to confer upon you the degree of Doctor of Humane Letters, *honoris causa.*

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Dr. Nathaniel B. Thayer, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stiched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue — Philosophy
Light blue — Education
Orange — Engineering
Gold-yellow — Science
Green — Medicine
Salmon pink — Public Health
Pink — Music
Purple — Laws
White — Arts and Letters

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Carnegie Tartan — Carnegie-Mellon
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-Chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free.

—St. John 8:32

AWARDS

IN THE SCHOOLS OF ARTS AND SCIENCES, ENGINEERING AND MEDICINE

LOUIS SUDLER PRIZE IN THE ARTS
for excellence in the creative arts

Awarded to JANICE LALIKOS

HONORABLE MENTION: Jessica Manke

IN THE SCHOOLS OF ARTS AND SCIENCES AND ENGINEERING

AMERICAN CHEMICAL SOCIETY, MARYLAND SECTION STUDENT AWARD
for outstanding scholastic achievement in chemistry and related disciplines by an undergraduate

Awarded to JANET C. M. SUN

ROBERTO R. ARELLANO AWARD
for outstanding achievement in the senior year by a Writing Seminars major.

Awarded to JESSICA MANKE
REBEKAH REMINGTON

LOUIS AZRAEL FELLOWSHIP IN COMMUNICATIONS
for demonstrated excellence in a field of mass communications

Awarded to LISA GOLDBERG
LISA WEISBORD

WILLIAM H. BAIN AWARD
for outstanding achievement by an undergraduate in the Writing Seminars

Awarded to DAVID DUDLEY
LOUISE REDD

BIOMEDICAL ENGINEERING AWARD
for outstanding effort in research in Biomedical Engineering

Awarded to BERTRAM A. LEWIS, JR.
Awarded to LAWRENCE J. FOGELSON

ALEXANDER BUTLER PRIZE
for the best research paper by a first year graduate student in History

Awarded to ELIGA H. GOULD

MARY FARRELL CAMERER AWARD
for outstanding achievement in the junior year by a Writing Seminars major

Awarded to SONDRA GUTTMAN
KATHLEEN KENNEDY

EUGENIO AND PATRICIA CASTILLO AWARD
to the best first or second year graduate student in Political Economy

Awarded to JIN SOO HAHN

G. STANLEY HALL PRIZE
for outstanding achievement by an undergraduate in Psychology

Awarded to HARRIET BOETZELEN

THE MAX HOCHSCHILD FUND
The prize is awarded annually to the undergraduate student in Business and Industrial Management who has shown the greatest promise and proficiency in this field and is awarded to

Awarded to LEORA FRIEDBERG

THE 3 ARTS CLUB OF HOMELAND AWARD
for outstanding achievement in the Writing Seminars

Awarded to CAROLYN MOOK

AT&T INFORMATION SYSTEMS—WILLIAM H. HUGGINS AWARD
for outstanding service and academic achievement by a senior and junior in Electrical and Computer Engineering

Awarded to John-Scott Smokelin
Susan Lynn Weller

ADOLF KATZENELLENBOGEN MEMORIAL PRIZE
for outstanding work in Art History

Awarded to Ellen Cooper Erdreich

DONALD E. KERR MEMORIAL MEDAL
to the outstanding undergraduate major in Physics and Astronomy

Awarded to Matthew Clifford Wyant

ARTHUR KOUGUELL PRIZE
to the outstanding undergraduate major in History

Awarded to Erik Gray Ledbetter

SAMUEL H. KRESS FOUNDATION FELLOWSHIP
in the Department of the History of Art

Awarded to William Glenn Gunhouse

ERNEST M. MARKS AWARD
in recognition of excellence in instruction and research in Chemistry

Awarded to Naelong Wang
Careen Tang

MATHEMATICAL SCIENCES AWARD
for outstanding achievement by an undergraduate

Awarded to Gary A. Henry

MATHEMATICS AWARD
for outstanding achievement by an undergraduate in Mathematics

Awarded to T. E. Leathrum

PAUL A. McCOY PRIZE
for the most distinguished masters essay in Political Science

Awarded to Steven J. Johnston

THE WILLIAM D. McELROY AWARD
for meritorious research conducted by an undergraduate in the biological sciences

Awarded to Kingman Ho
Alison Lin

ROBERT B. POND, SR. ACHIEVEMENT AWARD
to the graduating senior in Materials Science who best exemplifies Professor Pond's commitment to scholarly and humane values

Awarded to Julia Heaney

ROULSTON PRIZE
for outstanding achievement by an undergraduate in German

Awarded to Joyce Nyberg

SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD
in recognition of outstanding accomplishment in Chemistry

Awarded to Joseph Eaton
Brenda Wilson

ISADORE SOKOLOW MEMORIAL PRIZE
for a graduate student of outstanding promise in Latin American History

Awarded to Pablo Julian Davis

JULIAN C. STANLEY AWARD
for the undergraduate psychology major who most closely approximates Dr. Stanley's personal and professional standard of excellence

Awarded to JEFFREY RACHLINSKI

JULIUS TURNER PRIZE
for the most distinguished senior thesis in Political Science

Awarded to LISA A. LINDSAY
STEVEN T. SANDELIN

JOHN BOSWELL WHITEHEAD AWARD
for outstanding achievements by an undergraduate in Electrical and Computer Engineering

Awarded to DAVID JOHN SCHEERER

LOY WILKINSON AWARD
for a demonstrated record of academic excellence, leadership, and service in Chemical Engineering

Awarded to LORA M. COSTELLO

IN THE PEABODY CONSERVATORY OF MUSIC

THE HAROLD RANDOLPH PRIZE
Awarded to PHILIP JOHN HOSFORD

THE THREE ARTS CLUB AWARD
Awarded to CALEB TSAI

THE EDITH AND IRENE ASHWORTH PRIZE
Awarded to NANCY ANNE STAGNITTA

THE GUSTAV KLEMM AWARD
Awarded to JEFFREY KENT BLAKLEY

THE CHRISTOPHER PERCY AWARD
Awarded to H. ERIC HANSEN

THE BALTIMORE MUSIC CLUB AWARD IN ACCOMPANYING
Awarded to MICHUNG PARK

THE SARAH STULMAN ZIERLER PRIZE IN ACCOMPANYING
Awarded to MARGUERITE MICHELLE KRULL

THE PAULINE FAVIN MEMORIAL AWARD IN PIANO
Awarded to JUNGHYE RA

THE LILLIAN GUTMAN MEMORIAL PRIZE
Awarded to AKIKO NAKANISHI

THE FRANCES M. WENTZ TURNER MEMORIAL PRIZE IN PIANO
Awarded to COREY MICHAEL MCVICAR

THE ROSE MARIE MILHOLLAND AWARD IN PIANO
Awarded to HYUN-SOOK PARK

THE OTTO ORTMAN AWARD IN COMPOSITION
Awarded to JOHN MORGAN BOWEN, JR.

THE JOSEF KASPER AWARD IN VIOLIN
Awarded to JAE KYUNG KIM

THE IRVING LOWENS MEMORIAL PRIZE IN CRITICISM
Awarded to ERIN ELIZABETH OBERDORFER
NATALIE LYNNE SHELPUK

THE MARTHA AND WILLIAM BILL CLARINET PRIZE
Awarded to DAVID DROSINOS

THE SIDNEY FRIEDBERG PRIZE IN CHAMBER MUSIC
Awarded to KYOKO FUJIWARA

THE BRITTON JOHNSON MEMORIAL PRIZE IN FLUTE

Awarded to KIMBERLY ANN TROLIER

THE GEORGE CASTELLE MEMORIAL AWARD IN VOICE

Awarded to SHARI ALLISON ROSEN

THE CHARLES M. EATON AWARD IN VOICE

Awarded to JAMES STUART BAILEY

THE LILLIAN HOWARD MANN MEMORIAL AWARD IN VOICE

Awarded to JAMES MICHAEL KOON

THE MARIAN B. AND SAMUEL BERNSTEIN MEMORIAL PRIZE IN OPERA

Awarded to DEANNE MEEK

IN THE SCHOOL OF NURSING

ROBERT G. MERRICK AWARD

to a student demonstrating outstanding leadership in the field of nursing

Awarded to MARIA LOUISE LUZARRAGA

RESEARCH AWARD

to a student demonstrating intellectual curiosity and creativity in nursing research

Awarded to DANA DEAN

MARY AND GRAINGER MARBURG AWARD

in recognition of a student who consistently exhibits outstanding clinical nursing expertise

Awarded to SANDRA NOHEMY ANAYA AMAYA

ACADEMIC EXCELLENCE AWARD

to a student whose academic performance has been judged to be outstanding

Awarded to JANNA LYNN COLLINS

ELEANOR WADE CUSTER AWARD

to a student who most successfully combines commitment to the nursing profession with sensitivity to one's fellow man

Awarded to DONNA CRAVEN DOWNING-CORDDRY

THE CHURCH HOME AND HOSPITAL NURSING ALUMNAE AWARD

recognizes a student who best exemplifies a humanistic approach to nursing while integrating the art, science and the spirit of nursing

Awarded to MICAELA M. AIGNER

THE JOHNS HOPKINS NURSES' ALUMNI ASSOCIATION AWARD

recognizes a student whose leadership ability is combined with clinical competence and an inquiring mind

Awarded to ANNE MARIE BEYER

SINAI NURSES' ALUMNAE ASSOCIATION OF SINAI HOSPITAL, INC.

recognizes a student who exhibits enthusiasm, compassion and a positive approach to problem solving in nursing

Awarded to LINDA ANN BRAGOLE

IN THE SCHOOL OF CONTINUING STUDIES

DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business for the highest average in the undergraduate programs

Awarded to SUSAN BARTHOL FELKOSKI

EDWARD J. STEGMAN, C.P.A., MEMORIAL AWARD

in the Division of Administration and Business for excellence in the study of Administrative Science at the graduate level

Awarded to VERLIN L. ABBOTT
DENISE A. CREIGHTON
CHRISTY L. DRISCOLL
RICHARD J. FLANIGAN, JR.
JANET P. HADDAD
NANCY J. LEPAGE
BONNIE L. ROBESON
SUSAN T. SADOWSKI
WILLIAM J. WALKER
ELIZABETH A. WILSON

WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business for outstanding scholarship in the undergraduate programs and exceptional promise of future success

Awarded to THERESA ADRIENNE OTTERY

IN THE SCHOOL OF MEDICINE

THE HENRY STRONG DENISON SCHOLARSHIP

The Henry Strong Denison Fund for Medical Research in memory of Henry Strong Denison, M.D., 1908, is used for the specific purpose of aiding in the training for research of young people deemed by the Medical Faculty to be especially gifted for a career in medical investigation.

Awarded to MATHEW WILMEN MACCUMBER—1987-88

SANDOZ AWARD

This award provided by the Sandoz Pharmaceutical Company recognizes excellence in the field of Pharmacology.

Awarded to KENNETH WAYNE KINZLER—1987-88

LAUREL AND CLARENCE H. KOENNECKE AWARD

The Laurel and Clarence H. Koennecke Award was established to recognize those students showing most promise in the surgical field of Gynecology.

Awarded to YOLANGEL HERNANDEZ SUAREZ—1987-88

THE FRANKLIN PAINE MALL SCHOLARSHIP IN ANATOMY

The Franklin Paine Mall Prize in Anatomy established by Dr. Miley B. Weston, an alumnus of the School of Medicine, is given in the name of Franklin Paine Mall, the first professor of Anatomy in the School of Medicine.

Awarded to GREGORY ALAN SLIMAN—1984-85
WILLIAM HERBERT THOMPSON III—1984-85

THE PAUL EHRLICH AWARDS

The Paul Ehrlich Awards were established to honor Dr. Paul Ehrlich with funding originally granted by Dr. Emmanuel Libman. The awards, which recognize student research contributions are presented each year at Young Investigators' Day.

THE PAUL EHRLICH IN CLINICAL INVESTIGATION

Awarded to ROBERT JOHN D'AMATO—1987-88
PETER STEVEN KLEIN—1986-87

THE PAUL EHRLICH GRADUATE STUDENT AWARD

Awarded to JOHN GERARD TOWER—1986-87

THE PAUL EHRLICH AWARD FOR BASIC SCIENCE INVESTIGATION

Awarded to GORDON DUANE HOLT—1986-87
PHILIP JACOB ROSENFELD—1985-86
JAMES LOUIS SHERLEY—1987-88

THE PAUL EHRLICH MEDICAL STUDENT AWARD

Awarded to MICHAEL EDWARD TORCHIA—1987-88

MICHAEL A. SHANOFF RESEARCH AWARD

The award is made annually to a student for significant research contribution in the medical sciences. The award is made possible by a bequest from the family and friends of the late Dr. Michael A. Shanoff, who earned his undergraduate degree and M.D. and Ph.D. degrees from The Johns Hopkins University.

Awarded to JOACHIM JOHN LI—1986-87

THE DAVID ISRAEL MACHT MEMORIAL PRIZE

The David Israel Macht Memorial Prize was established in 1983 by the family of Dr. Macht to commemorate the centenary of his birth. Dr. Macht was a member of the faculty of the Departments of Pharmacology and Medicine in the early part of this century and was a pioneer investigator in the field of opiate alkaloids. The prize is intended to recognize excellence in investigation by a student in the School of Medicine.

Awarded to KENNETH WAYNE KINZLER—1987-88

THE W. BARRY WOOD STUDENT RESEARCH AWARD

The W. Barry Wood Student Research Award recognizes present commitment and future promise in research.

Awarded to AMY ROSE BROOKS—1985-86
HOWARD SCOTT KAUFMAN—1987-88

THE ALAN P. TRIMAKAS AWARD IN CARDIOVASCULAR RESEARCH

The Alan P. Trimakas Award in Cardiovascular Research is given to a medical student who has demonstrated unusual promise in the area of cardiovascular research.

Awarded to Bruce H. Chamberlain—1987-88

HAROLD LAMPORT BIOMEDICAL RESEARCH PRIZE

The memory of Dr. Harold Lamport, a distinguished investigator, is honored by this prize established by the Lamport Foundation. The prize recognizes research concributions.

Awarded to Michael Brian Sension—1987-88

CIBA AWARD FOR OUTSTANDING COMMUNITY SERVICE

The CIBA Pharmaceutical Compnay makes a yearly award to that student in the second year of the School of Medicine who is judged by classmates to have made the greatest contribution to our community.

Awarded to George Earl Peoples, Jr.—1985-86

IN THE SCHOOL OF HYGIENE AND PUBLIC HEALTH

ALUMNI ASSOCIATION SCHOLARSHIP AWARD

to students of outstanding promise

Awarded in 1986 to Oona Maeve Reneé Campbell
Awarded in 1986 to David Vlahov

FREDERIK B. BANG AWARD

for an outstanding research idea in the area of pathobiology

Awarded in 1986 to Peter J. Ward

RUTH B. FREEMAN AWARD

to graduating doctoral nurses to recognize academic performance and an outstanding thesis

Awarded to Arlene Manns Butz
David Vlahov

PAUL A. HARPER AWARD

to degree candidates in the Department of Population Dynamics to recognize both past achievement and promise of future contributions to the field of population

Awarded in 1987 to Oona Maeve Reneé Campbell
Awarded in 1986 to Gail Adair Cornwall

JOHN C. HUME AWARD

to a doctoral graduate for significance of research in the Department of Health Policy and Management

Awarded to Jane Dillard Scott

JOHN C. HUME AWARD

to a Master of Public Health graduate for academic excellence and professional promise

Awarded to Walter Hai-Tze Tsou

CORNELIUS W. KRAUSÉ AWARD

for the outstanding dissertation in Environmental Health

Awarded to Michael Bracken Macdonald

MARY B. MEYER MEMORIAL AWARD

to students in the Department of Epidemiology for academic excellence

Awarded in 1986 to Beryl Ann Koblin
Awarded in 1984 to Gunta Iris Obrams

IN THE SCHOOL OF ADVANCED INTERNATIONAL STUDIES

WILLIAM C. FOSTER AWARD

to a second year student for sound scholarship and a record of leadership and distinguished service to SAIS exemplary of the high qualities of integrity, loyalty and ability admired in Mr. Foster

Awarded to Elliot Uchitelle
David B. Youtz

CHRISTIAN A. HERTER FELLOWSHIP

to the member of the second year class with the most outstanding record during the first year

Awarded to Cindy K. Matheison

HONOR SOCIETIES

PHI BETA KAPPA

From the Junior Class in the School of Arts and Sciences

Alexis Carris
Dayna Devon Ferguson
Paul Joseph Fox
Debra Louise Hamel
Deborah Jill Krauss
Virginia Michele Marth
Michael Carl Runge
Brenda Arlene Schulman
Barry Jay Uphoff

From the Senior Class in the School of Arts and Sciences
Elected in 1986-87

Shireen Rusby Howard
Ian Elliott Krop
Marcel Joseph Lachenmann
Dawn Jeanette Ledbetter
Linda Lin Liu
Hemai Bharati Parthsarathy
Matthew Adrian Spear

Elected in 1987-88

Gabriel Adler
Spiro Basil Antoniades
Douglas Clyde Barnhart
David Scott Battleman
Steven Marc Blumenthal
Harriet Anastasia Boetzelen
Michael Severino Bosco
Lena Carol Emad Braatz
James William Bryson
Nghi Huu Bui
Paul Cefalu
Jimmy Chu-Ming Chang
Annette Helen Chen
John Stephen Cole
Leora Ruth Friedberg
Brian Scott Funaki
Ann Susan Ginsberg
Gerald Bentley Guest
Lisa Mary Guttroff
Katherine Ann Harris
Julia Ann Hodge
John Blair Hutton III
Nakul Jerath
Jordon Paul Karp
Madhav Kavuru
London Del Kirkendall
Erik Gray Ledbetter
Frances Eun Hyung Lee
John Juheon Lee
Alison Lin
Christopher David Luebbe
Jessica Rose Manke
Helen Elizabeth Merchant
Eileen Elizabeth Metzger
Gillian Patricia Printon
Jeffrey John Rachlinski
Rebekah Marie Remington
Miriam Grace Reumann
Richard Stewart Ross
Michael Anthony Sanderson
Alice Isome Sato
Marlene Robin Schwaeber
Jason Theodore Shaplen
James Ignatius Spak
Daniel Walter Stone
Janet Chij Mei Sun
Wei Ping Wayne Tam
Glen Howard Weiss
Brook Van Hamm Wiers
Chi-Chi Wu
Louisa Pu Wu
Matthew Clifford Wyant

From the Doctor of Philosophy Candidates in the School of Arts and Sciences

Gang Xiao

From the School of Medicine

Jared Randall Curtis
George Earl Peoples, Jr.

From the School of Hygiene and Public Health

Yue-Liang Leon Guo
Chou-Chi Huang Li

From the School of Advanced International Studies

David J. Charles
Sarah Lynn VanDamme

TAU BETA PI

National Engineering Honor Society

From the Junior Class in the G.W.C. Whiting School of Engineering

Mounir Bashour
Kwabena A. Boahen
Louis M. Born
Jeffrey A. Cadeddu
Ajay Chawla
Bernard L. Edwards
Ujjal K. Ghoshtagore
Jeffrey W. Holmes
David J. Israel
Kimberly A. Juvan
Nina S. Kadan
Hussman M. Khoury
Matthew J. Lesho
Kwong C. Li
Heidi S. Perloff
David J. Scheerer
John P. Soisson
Heidi L. Wald
Susan L. Weller
Katherine C. Wu
Paul C. Zei

From the Senior Class in the G.W.C. Whiting School of Engineering

Elected in 1986-87

Jeffrey Anthony Caeodu
Brandon Willie Chan
Elfonso Nicholas Iasiello
Stephen Mitchell Jameson
Nina Kaden
Wai Man Lam
Edward Dai-Chee Poon
Evan Ralph Reiter
Mark Richards
David John Scheerer
John Scott Steckenrider
Christopher Charles Streinz
Jeffrey Taber
Anne Madeline Troop
Katherine C. Wu
Michael Yang

Elected in 1987-88

Victoria Chung-Ping Chen
Golam Sayeed Choudhury
James Charles Chrones
Marvin Thomas Erdly
Lawrence Jack Fogelson
Ann Elizabeth Friese
José Enrique Goldstein
Thomas William McNamara
Jonathan Buchanan Pellett
John-Scott Smokelin
Benjamin Chen-Yu Tam

From the Part-Time Engineering Program

David Lance Martin

ALPHA OMEGA ALPHA

Honor Medical Society

Jennifer Kay Aylestock
Amy Rose Brooks
Thomas Byrne Connor, Jr.
Jared Randall Curtis
Marc Alan Gillinov
Joseph Anthony Glenn Lahorra
Jennifer Ann Lutley
David Robinson Lynch
Brian David Mulliken
Jeffrey Scott Nye
George Earl Peoples, Jr.
John Travis Pritchett
Christopher Mark Putnam
Philip Jacob Rosenfeld
Evan Spencer Siegelman
Gregory Alan Sliman
Allen John Taylor
William Herbert Thompson III
Michael Edward Torchia

DELTA OMEGA

National Public Health Honor Society

Laura Catherine Altobelli
Mary Abbott Bolte
Mary Elizabeth Braddock
Oona Maeve Renee Campbell
Christopher H. Coulter
Lalit Dandona
Robert Francis De Fraites
Edward Frederick Ellerbeck
Leslie Garrison
Kenneth Alan Gershman
Radolph Lee Gordon
Yue-Liang Leoniguo
Kathy Joan Helzlsouer
Chou-Chi Huang Li
Kelly James Kelleher
Philippe G. Kestelyn
Richard J. Klein
Dale Ellen Lupu
Rebecca F. Moreland
Emilie Humbert Mules
William E. Narrow
Susan Druckemiller North
Robert Allison Pendergrast, Jr.
Valerie Jeanne Schwoebel
Anna Maria Stevens-Kestelyn
Susan Louise Thompson-Gorman
Alison Miller Trinkoff
Walter Hai-Tze Tsou
Marie Annette Vaughan
David Vlahov
Lisa Ann Werthamer-Larsson
Hui-Lin Wu

PI KAPPA LAMBDA

National Music Honor Society

Kristie Renee Born
Andrew Bryan Cooperstock
Kyoko Fujiwara
H. Eric Hansen
Philip John Harford
Marguerite Michelle Krull
Akiko Nakanishi
Michung Park
Nancy Anne Stagnitta
Jill Ellen Thomasson
Kimberly Ann Trolier
Lynne Ann Walker
Joel Wizansky
Jean Marie Wu

HONORS

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with General Honors

Gabriel Adler
Spiro Basil Antoniades
Christopher Ethan Arzt
Douglas Clyde Barnhart
Lisa Ellen Bartra
Mark Benjamin Basch
David Scott Battleman
Anne Michele Baughman
Janice Sandra Berman
Steven Marc Blumenthal
Harriet Anastasia Boetzelen
Robert Anthony Bonzani
Michael Severino Bosco
James Anthony Braatz III
Lena Emad Braatz
Ian Christopher Brooks
James William Bryson
Nghi Huu Bui
Diane Rochelle Cantor
Paul A. Cefalu
Jimmy Chu-Ming Chang
Annette Helen Chen
Andrew Kaiche Cheng
Jeanne Marie Clark
John Stephen Cole
Christina Cody Cromwell
Deanna Louise Dance
Matthew Colin Difazio
Philip Alan Dinauer
Peri Beth Erlanger
Andrew Lawrence Feit
Linda Danielle Feldmann
Brian Ferrall
Stuart Ross Framm
Leora Ruth Friedberg
Miriam Anne Friedman
Brian Scott Funaki
John Anthony Galotto
Joseph Michael Gergyes
Mary Elizabeth Ginder
Ann Susan Ginsberg
Hector Gonzalez
Gerald Bentley Guest II
Lisa Mary Guttroff
Katherine Ann Harris
Julia Ann Hodge
Shireen Rusby Howard
Charlene Hsiao-Ling Hu
John Blair Hutton III
Nakul Jerath
Mary Katherine Johns
Eric Alexander Kane
Jordan Paul Karp
Madhav Kavuru
London Del Kirkendall
Ian Elliott Krop
Chaiyaporn Kulsakdinun
Marcel Joseph Lachenmann, Jr.
Kathy Ann Ladun
Dawn Jeanette Ledbetter
Erik Gray Ledbetter
Andy Ming Lee
Frances Eun Hyung Lee
John Juheon Lee
Yong B. Lee
Adam Brett Lerner
Alison Lin
Lisa Ann Lindsay
Claudia Grant Link
Scott David Lippe
Linda Lin Liu
Lia Suzanne Logio
Aaron David Long
Christopher David Luebbe
Janice Marion Lyons
Jessica Rose Manke
Amal Mattu
Helen Elizabeth Merchant
Eileen Elizabeth Metzger
Jared Zalman Mintz
Brian Christopher Murphy
Elizabeth Rebecca Neswald
Joyce H. Nyberg
Vassilios Theodore Opsimos
Robert Kurus Parangi
Arnold R. Parenteau
Sylvia Esther Paret-Roman
Hemai Bharati Parthasarathy
Anne Margaret Peternel
Dana Ceceilia Peters
Gillian Patricia Printon
Jeffrey John Rachlinski
Rebekah Marie Remington
Miriam Grace Reumann
Max Langan Rosenkrantz
Richard Stewart Ross
Stevan Troy Sandelin
Michael Anthony Sanderson
Alice Isome Sato
Julia Carol Schell
Marlene Robin Schwaeber
Clark Pomeroy Searle III
Jason Theodore Shaplen
Aneil Madhukar Shirke
Paula A. Snedeker
James Ignatius Spak
Matthew Adrian Spear
Daniel Walter Stone
Janet Chij Mei Sun
Wayne Tam
Angela Wailan Tang
Mark Austin Thistel
Timothy Robert Tuel
Pradyumna Eswara Tummala
David Jonathan Waksman
Glen Howard Weiss
Stephanie Bryn Weissman
Brook Van Hamm Wiers
Matthew Clifford Wyant
Jeffrey Scott Yager
Maryam Yamani
Ellen Holly Zimmerman

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with General Honors

Jonna Rachel Berman
Mary Ellen Burcham
Brandon Willie Chan
Victoria Chung-Ping Chen
Golam Sayeed Choudhury
James Charles Chrones
Lisa Kristen Davis
Lawrence N. Eisenman
Marvin Thomas Erdly
Vincent John Farozic
David Gerard Fischer
Ann Elizabeth Friese
David James Genzel
Jose Enrique Goldstein
Julia Heaney
Gary Andrew Henry
Frank P. Hsu
Stephen Mitchell Jameson
Vivek Tim Malhotra
Thomas William McNamara
Laura Moon Newcomer
Jonathan Buchanan Pellett
Huong Thanh Pham
Edward Dai-Chee Poon
Richard Joseph Prengaman
Evan Ralph Reiter
Mark Richards
Gary Laurence Siegel
Anne Katherine Skaja
John-Scott Smokelin
Christopher Charles Streinz
Jeffrey Everett Taber
Benjamin Chen-Yu Tam
Audrey Therese Winget
Michael Brian Yang

Baccalaureate Candidates in the School of Arts and Sciences

Graduating with Departmental Honors

Robert Glenn Barnett
Mark Benjamin Basch
David Scott Battleman
Janice Sandara Berman
Harriet Anastasia Boetzelen
Michael Severino Bosco
Lena Emad Braatz
Marissa Pauline Brown
James William Bryson
Diane Rochelle Cantor
Paul A. Cefalu
David J. Charles
Annette Helen Chen
Jeane Marie Clark
De Anna Louise Dance
Ramon Robert J. DeCastro
Stephanie Gerard Deets
Peri Beth Erlanger
Linda Danielle Feldmann
Brian Ferrall
Leora Ruth Friedberg
Brian Scott Funaki
John Anthony Galotto
Mary Elizabeth Ginder
Ann Susan Ginsberg
Gerard Bentley Guest II
Beth Gail Guinzburg
John Blair Hutton III
Mary Katherine Johns
Deepti Upen Kharod
Rila Kim
Ian Elliott Krop
Thomas Edward Leathrum
Erik Gray Ledbetter
Kevin Guy Lee
Adam Brett Lerner
Lisa Ann Lindsay
Claudia Grant Link
Aaron David Long
Deborah Anne-Marie Lue
Janice Marion Lyons
Jessica Rose Manke
Helen Elizabeth Metzger
Carolyn Ann Mook
Michele Williams
Elizabeth Rebecca Neswald
Joyce H. Nyberg
Hemai Bharati Parthasarathy
Mary Frances Perrinboom
Anne Margaret Peternel
Jeffrey John Rachlinski
Sanjay Ramesh
Rebekah Marie Remington
Karen Lynne Richardson
Richard Stewart Ross
Stevan Troy Sandelin
Jason Theodore Shaple
David D. Shin
Ellen Stephanie Simon
Paula A. Snedeker
Justine Patricia Sorrentino
Daniel Walter Stone
Wayne Tam
Angela Wailan Tang
Sandrine Ariane Estelle Tiller
Sarah Lynn Van Damme
Abby Robin Wadler

Graduates from the Biology Honors Program

Kingman Kim-Wei Ho
Alison Lin

Graduates from the Humanistic Studies Honors Program

Christopher David Luebbe
Miriam Grace Reumann

Baccalaureate Candidates in the G.W.C. Whiting School of Engineering

Graduating with Departmental Honors

Jonna Rachel Berman
Amy Beiber
Mary Ellen Burchan
Brandon Willie Chan
Golam Sayeed Choudhury
Gregory Scott Chirikjian
James Charles Costello
Lisa Kristen Davis
Lawrence N. Eisenman
Marvin Thomas Erdly
Vincent John Farozic
David Gerard Fischer
Lawrence Jack Fogelson
Ann Friese
Jose Enrique Goldstein
Gary Andrew Henry
Frank Hsu
Terry T. Hsu
Stephen Jameson
Thomas McNamara
Antara Mallampalli
Thomas Samuel Miller
Jay Narasai Patil
Huong Thanh Pham
Jonathan Pellett
Edward Dai-Chee Poon
Richard Prengaman
Evan Ralph Reiter
Mark Richards
Gary Lawrence Siegel
Anne Katherine Skaja
John Smokelin
Christopher Charles Streinz
Jeffrey Taber
Benjamin Chen-Yu Tam
Michael Brian Yang

Baccalaureate Candidates in the School of Continuing Studies

Graduating with Honors

Laura Nadine Berry
Robyn Egnatius
Susan Felkoski
Kirstiaan Levine
Theresa Ottery
Janet Stricker
Susan Klein Wright

CANDIDATES FOR DEGREES

as of May 11, 1988

A number of the students included in the lists which follow completed their degree requirements earlier in the academic year and could not be present today to receive thir degree in person.

BACHELORS OF ARTS

in The School of Arts and Sciences

Sandra Marie Aamodt, of Rockville, Md.
Gabriel Adler, of Columbia, Md.
Annalisa Olivia Affleck, of Forest Hill, Md.
Anthony Byron Agrios, of Amherst, Mass.
Grace Rosemary Andersen, of Peekskill, N.Y.
Christopher Scott Anderson, of Cockeysville, Md.
Mark Allan Anderson, of Bellevue, Wash.
Steven Angerthal, of Valley Stream, N.Y.
Spiro Basil Antoniades, of Silver Spring, Md.
Ronald Craig Appleby, Jr., of Monroe Township, N.J.
Nancy Armstrong, of Baltimore, Md.
Christopher Ethan Arzt, of Valley Cottage, N.Y.
Frederick George Assaf, of Scranton, Pa.
Herman Palileo Ayayo, of Emerson, N.J.
Salman Azhar, of Karachi, Pakistan.
Leonard Benjamin Bacharier, of Massapequa, N.Y.
Richard S. Baick, of Irvine, Calif.
Myron Paul Barlow, of Grosse Pointe, Mich.
Robert Glenn Barnett, of Newton, Mass.
Douglas Clyde Barnhart, of McMurray, Pa.
Christopher Gerard Barrett, of Scranton, Pa.
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Corey Michael McVicar, of Sydney, Australia. Piano.
Frank James Owens, of Warrenton, Va. Trumpet.
Theresa Louise Simons, of Miami Lakes, Fla. Trumpet.
Elizabeth M. Van Eerde, of Allentown, Pa. Flute.

BACHELORS OF MUSIC

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Wendy Kathleen Brown, of Owings, Md. Trumpet.
Chen Quei-lih, of Tiawan. Piano.
Walter Choi, of Turnersville, N.J. Violin.
Andrew McIvor Cook, of Simi Valley, Calif. Violoncello.
Mary Shelton Davis, of Decatur, Ga. Violoncello.
David Drosinos, of Baltimore, Md. Clarinet.
Richard Alan Gill, of Upper Marlboro, Md. Tuba.
H. Eric Hansen, of Kaysville, Utah. Double Bass.
Trent Xavier Johnson, of Clinton, Md. Organ.
Rachel Wylene Jordan, of New Orleans, La. Violin.
Jung Hae Kim, of Seoul, Korea. Harpsichord.
Riko Kohazame, of Okinawa, Japan. Piano.
J. Michael Koon, of Woodbridge, Va. Voice.
Marguerite Michelle Krull, of Birmingham, Mich. Piano.
Hyun-Jin Kwon, of Seoul, Korea. Violoncello.
Hsiu-Fen Lee, of Taipei, Taiwan, China. Piano.
Ferdinand Robert Liva, Jr., of Dallas, Pa. Violin.
Coreen Ann Maki, of Seattle, Wash. Oboe.
Elizabeth Anne Marsh, of Omaha, Neb. Flute.
Scott McKay Martin, of Baltimore, Md. Composition.
Jennifer Louise Masché, of Pittsburgh, Pa. Flute.
Nadja Rachel Matisoff, of Berkeley, Calif. Voice.
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Jumi Mohammadioun, of Whaleyville, Md. Guitar.
Carolyn Clothier Montgomery, of Phoenixville, Pa. Voice.
Geoffrey Ross Morissette, of Hempstead, N.H. Piano.
Akiko Nakanishi, of Tokyo, Japan. Piano.
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Michung Park, of Sunnyvale, Calif. Piano.
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Jill Ellen Thomassen, of Warren, N.J. Flute.
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James William Mizgala, of Silver Spring, Md.; B.A. Cornell University, 1984. Management.

Margaret Elaine Molloy, of Baltimore, Md.; B.S. University of Colorado, 1978. Information Technology.

Robert Joseph Moore, of Reisterstown, Md.; A.A. Pennsylvania State University, 1976; B.S., 1978. Management.

Pamela Ann Moses, of Baltimore, Md.; B.A. Notre Dame University, 1983. Management.

Gayle Mowbray, of Westminster, Md.; M.S. Gannon College, 1981. Management.

Katherine E. Mueller, of Lutherville, Md.; B.S. The Johns Hopkins University, 1981. Management.

Shirley Nathan-Pulliam, of Baltimore, Md.; B.S.N. University of Maryland, 1980. Management.

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Susan Patricia Nolan-Russell, of Baltimore, Md.; B.A. University of Maryland, 1982. Management.

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Mary Ellen O'Donnell, of Towson, Md.; B.S. Towson State University, 1980. Management.

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Jodie Lee O'Reilly, of Ruxton, Md.; B.S.N. University of Maryland at Baltimore, 1981. Public Administration.

Paul Palmer, Jr., of North East, Md.; B.S. Le Tourneau College, 1981. Management.

Elizabeth Marie Paris, of Germantown, Md.; M.S. University of Maryland, 1982. Management.

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Margaret Lynn Perkoski, of Laurel, Md.; B.A. George Washington University, 1975. Information Technology.

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John Francis Reilly, of Baltimore, Md.; B.A. Bowdoin College, 1976. Management.

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Brenda Daugherty Rhodes, of Columbia, Md.; B.A. Frostburg State University, 1981. Management.

Stephanie Leigh Richter, of Baltimore, Md.; B.A. Western Maryland College, 1982. Management.

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Michael Steven Roberts, of York, Pa.; B.S. Pennsylvania State University, 1983. Management.

Robert N. Robertson, of Columbia, Md.; B.E. Vanderbilt University, 1977. Management.

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Jeffrey Lynn Stroud, of Baltimore, Md.; B.A. Michigan State University, 1978. Management.

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Richard Henry Tuznik, of Millersville, Md.; B.E.E. University of Detroit, 1951. Management.

Brian Thomas Twilley, of Cockeysville, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Management.

David Alan Vanneman, of Baltimore, Md.; B.A. Towson State University, 1982. Management.

Carmen Vazquez, of Baltimore, Md.; B.S. Columbia University, 1976. Management.

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William James Walker, of Alexandria, Va.; B.S. University of Maryland, 1972. Management.

Timothy G. Walsh, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1976. Management.

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Eric Sherman Waterman, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1974. Management.

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Lori Stegner Weiler, of York, Pa.; B.A. Indiana University of Pennsylvania, 1980. Management.

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Richard Wayne Wich, of Baltimore, Md.; B.A. University of Maryland, 1971. Human Resource Development.

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Gail Williams, of Columbia, Md.; B.S. Western Carolina University, 1984. Management.

Harold David Williams, of Baltimore, Md.; B.S. Coppin State College, 1978. Human Resource Development.

Ronald Coleman Williams, of Baltimore, Md.; B.A. University of Tampa, 1980. Human Resource Development.

Elizabeth Anne Wilson, of Baltimore, Md.; B.S. University of Delaware, 1985. Information Technology.

Debra Lee Wojciechowski, of Baltimore, Md.; B.S. University of Baltimore, 1982. Management.

Margaret Ann Wolfe, of Baltimore, Md.; B.S.N. University of Maryland, 1984. Management.

Odessa J. Woods-Mathews, of Columbia, Md.; M.S.W. Howard University, 1965. Management.

Carol Rae Woodward, of Baltimore, Md.; B.S. University of Delaware, 1980. Human Resource Development.

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Sandra Mary Yarworth, of Baltimore, Md.; B.A. University of Maryland, Baltimore County, 1980. Management.

Retha E. Young, of Forestville, Md.; B.S. Strayer College, 1983. Information Technology.

Janice Louise Zacker, of Monkton, Md.; B.S. Towson State University, 1981. Management.

MASTERS OF ARTS IN TEACHING

in The School of Continuing Studies

Anne Elizabeth Dolber, of Towson, Md.; B.S. University of Maryland, 1984.

Grace H. Tung, of Baltimore, Md.; B.S. The Johns Hopkins University, 1986.

CERTIFICATES OF ADVANCED STUDY

in The School of Continuing Studies

Nettie Nevolia Baldwin, of Silver Spring, Md.; B.A. University of Puget Sound, 1965; M.A. George Washington University, 1978.

Marcia S. Berlin, of Columbia, Md.; B.A. State University of New York at Albany, 1969; M.S. State University of New York at Buffalo, 1972.

Barbara Brown-Cavallaro, of Fallston, Md.; B.S. Coppin State College, 1977; M.Ed. Loyola College, 1981.

Carol Anne Bucher, of Columbia, Md.; B.A. Slippery Rock College, 1970; M.Ed. The Johns Hopkins University, 1977.

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Betty Thomas Freeland, of Catonsville, Md.; B.A. University of Maryland, Baltimore County, 1972; M.S. The Johns Hopkins University, 1982.

Susan Elizabeth Garber, of Laurel, Md.; B.S. University of Maryland, 1971; M.S. The Johns Hopkins University, 1978.

Marcia Lorraine Harrington, of Silver Spring, Md.; M.S. University of Pennsylvania, 1970.

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Mary Carolyn Kues, of Towson, Md.; M.S. Loyola College, 1979.

Phyllis Bonn Lamiman, of Bethesda, Md.; M.E.D. University of Maryland, 1970.

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Anita Marguerite McKnight, of York, Pa.; M.Ed. Western Maryland College, 1969.

Thomas Dixon Murray, of Jarrettsville, Md.; M.S. Towson State University, 1975.

Kathy Nora Pongor, of Columbia, Md.; M.A. Galludet College, 1982.

Azra Zafar Qureshi, of Baltimore, Md.; M.A. State University of New York, 1979.

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PROFESSIONAL STUDIES CERTIFICATE

in The Peabody Conservatory of Music

Ria Hendrati Senobroto, of Bandung, Indonesia; B.M. The Johns Hopkins University, 1985. Piano.

Ann K. Wieczorowski, of Washington, D.C.; B.M. Ohio Wesleyan University, 1952; C.F.A. Chicago Academy of Art, 1956. Voice.

MASTERS OF MUSIC

in The Peabody Conservatory of Music

James Stuart Bailey, of Baltimore, Md.; B.A. Towson State University, 1985. Voice.

Kristie Renee Born, of Pompano Beach, Fla.; B.M. The Johns Hopkins University, 1986. Piano.

John Morgan Bowen, Jr., of Baltimore, Md.; B.A. Towson State University, 1985. Composition.

Herbert Russell Buffington, of Atlanta, Ga.; B.A. Duke University, 1980. Organ.

Suzanne S. Chadwick, of Union City, Pa.; B.M. The Johns Hopkins University, 1986. Voice.

Hyeon Mi Chong, of Richmond, Va.; B.M. Catholic University of America, 1986. Piano.

Jennifer Dee Clarkston, of Valencia, Calif.; B.M. California State University, Northridge, 1985. Flute.

David DePalo, of Scarsdale, N.Y.; B.A. Hampshire College, 1984. Composition.

William Maxwell Derrickson, of Salisbury, Md.; B.M.E. James Madison University, 1985. Percussion.

Barry Briggs Dove, of Baltimore, Md.; Performer's Certificate, B.M. The Johns Hopkins University, 1986. Percussion.

Daniel Friedman, of Toronto, Ontario, Canada; Performer's Diploma, A.R.C.M. Royal College of Music, 1984; B.M. Queens University, 1986. Piano.

Kyoko Fujiwara, of Evanston, Ill.; B.M. The Johns Hopkins University, 1986. Piano.

Peter Stuart Golladay, of Moneta, Va.; B.A. Radford University, 1986. Guitar.

Therese Jean Grundl, of Los Alamos, N.Mex.; B.A. University of Connecticut, 1983. Clarinet.

Ruthanne Haefka, of Gettysburg, Pa.; B.M. Oberlin College, 1963. Organ.

Virginia Houpt Hildebrand, of Severna Park, Md.; B.A. Dickinson College, 1983. Guitar.

Philip John Hosford, of Las Cruces, N.Mex.; B.M. University of Maryland, 1983. Piano.

Hsu Wenlih, of Taipei, Taiwan; B.M. The Johns Hopkins University, 1987. Piano.

Mari Ito, of Nagoya, Japan; B.M. San Francisco Conservatory of Music, 1986. Piano.

Jae Kyung Kim, of Arlington, Va.; B.M. The Johns Hopkins University, 1985. Violin.

Brena C. Lever, of Encino, Calif.; B.M. Indiana University, 1986. Flute.

Leslie Anne Light, of Mechanicsburg, Pa.; B.A. Dickinson College, 1973. Music History.

Beatrice Hsin-Chen Long, of Taiwan; B.M. Curtis Institute of Music, 1986. Piano.

Rosanne Lea Malek, of Britt, Iowa; B.M.E. University of Wyoming, 1983. Music Education.

Laura Ellen McDonald, of Ripley, Tenn.; B.A. Davidson College, 1985. Piano.

Erin Elizabeth Oberdorfer, of Roseville, Minn.; B.A. Goucher College, 1985. Music Criticism.

Jonathan Leigh Parrish, of Lynchburg, Va.; B.M. James Madison University, 1984. Horn.

Lou Ann Pfeil, of Houston, Texas; B.M. The Johns Hopkins University, 1986. Bassoon.

Christopher Fredric Sengstacke, of Baltimore, Md.; B.S. Towson State University, 1980. Music Education.

Natalie Lynne Shelpuk, of Princeton, N.J.; B.M. Westminster Choir College, 1986. Music Criticism.

Jeffrey Alan Smith, of Levittown, Pa.; B.M. Wilkes College, 1985. Piano.

Patricia Carmelina Sparti, of Miami, Fla.; B.M. University of Miami, 1983. Conducting.

Lynne Steele, of Houston, Texas; B.M. University of St. Thomas, 1978. Guitar.

Catherine Louise Thorpe, of New Paltz, N.Y.; B.M. The Johns Hopkins University, 1986. Voice.

Deborah Ann Thurlow, of Takoma Park, Md.; B.A. Columbia Union College, 1985. Voice.

Kimberly Ann Tomko, of Wilkes-Barre, Pa.; B.M. Wilkes College, 1985. Piano.

Mark A. Twehues, S.M., of Dayton, Ohio; B.M. Wright State University, 1978. Oboe.

Deanna Len Walker-Tipps, of Portales, N.Mex.; B.M. Eastern New Mexico University, 1986. Composition.

Celia Jane Waterhouse, of London, England; B.M. Royal Northern College of Music, 1986. Violin.

Robin-Anne S. Woodle, of St. Petersburg, Fla.; B.M. University of Cincinnati College-Conservatory of Music, 1979. Voice.

Jean Marie Wu, of Garden City, N.Y.; B.M. The Johns Hopkins University, 1987. Piano.

Yoon YoungJoo, of Forest Hills, N.Y.; B.M. The Johns Hopkins University, 1986. Piano.

ARTIST DIPLOMAS

in The Peabody Conservatory of Music

Michael Hauber, of Filderstadt, Federal Republic of Germany; geprüfter Musikehrer, Musikhochschule Stuttgart, 1984; Professional Studies Certificate, The Johns Hopkins University, 1986. Piano.

MASTERS OF SCIENCE

in The School of Hygiene and Public Health

Ugur Camli, of Istanbul, Turkey; M.D. University of Istanbul, 1983. Environmental Health Sciences.

In Vivo *Studies of Serotonin-2 Receptors with* ^{3}*H-N-Metylspiperone.*

Sharon Leigh Edelstein, of Rochester, N.Y.; B.S. Cornell University, 1983. Biostatistics.

Poisson Regression with a Surrogate X: An Analysis of the Effect of Vitamin A Supplementation on Children's Mortality.

Karen Kress Hammerman, of Potomac, Md.; B.A. Emory University, 1983. Behavioral Sciences and Health Education.

Impact and Acceptability of Health Risk Assessments on Worksite Health Promotion.

Frederick Kelker Hilton, Jr., of Louisville, Ky.; B.S. Indiana University, 1983. Environmental Health Sciences.

Increased Tolerance and Leg Circumference Changes during Repeated Exposure to Lower Body Negative Pressure in Man.

Virginia Lynn Iuorno, of Rome, N.Y.; B.S. Stevens Institute of Technology, 1982. Biophysics.

Nuclear Magnetic Resonance Investigation of the Synthetic Deoxyribonucleic Acid Octamers d(AAACGTTT) and d(AAAGCTTT).

Joan Alison McGuire, of Falls Church, Va.; B.S.N. American University, 1979. Behavioral Sciences and Health Education.

Medication Compliance, Cancer, Discharge Planning.

Lynne Elizabeth Metcalfe, of Edmonton, Canada; B.Sc. University of Alberta, 1979. Immunology and Infectious Diseases.

Heteroduplex Analysis by Electron Microscopy of Human Papillomavirus Type 6 Subtypes from Juvenile-Onset Adult-Onset Respiratory Papillomata and Condyloma Acuminata.

Constance Caldwell Moorman, of Levittown, Pa.; B.S. Pennsylvania State University, 1973. Biostatistics.

The Statistical Analysis of Matched Case-Control Studies.

Emilie Humbert Mules, of Baltimore, Md.; B.A. Goucher College, 1966. Epidemiology.

Cancer in Relatives of Leukemic Patients with Chromosomal Rearrangements at Heritable Fragile Site Locations in their Malignant Cells.

Jonathan Jay Musmand, of New York, N.Y.; B.A. The Johns Hopkins University, 1984. Health Policy and Management.

The Effects of Medical Liability Premiums on Physician Fee Levels.

Geoffrey S. Pitt, of Baltimore, Md.; B.A. Yale University, 1984. Health Policy and Management.

Variations in Methods of Technology Assessment by Third-Party Payors.

Justin Rene Walters, of Mechanicsburg, Pa.; B.A. Colgate University, 1985. Population Dynamics.

The Effects of Inhibition of Aromatase Enzyme Activity on Beagle Leydig Cell Structure and Function.

MASTERS OF HEALTH SCIENCE

in The School of Hygiene and Public Health

Michael Joseph Abele, of Holmdel, N.J.; B.A. The Johns Hopkins University, 1984. Immunology and Infectious Diseases.

Paulo Belmonte Abreu, of Porto Alegre, Brazil; M.D. Universidade Federal do Rio Grande do Sul, 1977. Mental Hygiene.

Sono Aibe, of Cliffside Park, N.J.; B.A. Harvard University, 1986. International Health.

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Christine Onderdonk Battin, of Woodbridge, Conn.; B.A. Swarthmore College, 1986. Health Policy and Management. Health Finance and Management.

Judith Sharon Bern, of New Rochelle, N.Y.; B.A. University of Massachusetts, 1984. Health Policy and Management. Health Finance and Management.

Kathleen Bradford, of Pasadena, Md.; B.S. University of Massachusetts, 1980. Environmental Health Sciences. Industrial Hygiene and Safety Sciences.

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Ning Guo Feng, of Shanghai, China; B.M. Shanghai First Medical College, 1983. Epidemiology. Human Genetics.

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I-Mei Hsiu, of Walnut Creek, Calif.; B.S. University of California, Berkeley, 1986. Health Policy and Management. Health Finance and Management.

Juei-Chen Hsu, of Taipei, Taiwan, China; B.A. National Taiwan University, 1984. Health Policy and Management. Health Finance and Management.

Suzanne Reneé Janzen, of Turlock, Calif.; Sc.B. Brown University, 1984. International Health.

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Jane Ellen Konhaus Martin, of Clarksville, Md.; B.A. Dickinson College, 1970; M.Ed. Goucher College, 1972. Maternal and Child Health.

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Nancy Dunne Peterson, of Falls Church, Va.; B.A. George Mason University, 1985. Health Policy and Management. Health Finance and Management.

Pamela Haile Phillips, of Bethesda, Md.; B.A. Smith College, 1970. Epidemiology.

Stacey Jill Pomerantz, of New York, N.Y.; B.A. Brandeis University, 1986. Maternal and Child Health.

Arnold Lee Potosky, of Ellicott City, Md.; B.A. University of Virginia, 1983. Health Policy and Management. Health Finance and Management.

Anita Pustelnik, of Chicago, Ill.; B.A. University of Illinois, 1985; B.S., 1985. Environmental Health Sciences. Industrial Hygiene and Safety Sciences.

Andrea Therese Barishek Russiello, of West Grove, Pa.; B.A. Temple University, 1973; M.S. University of Delaware, 1977. Environmental Health Sciences. Industrial Hygiene and Safety Sciences.

Samuel Sipias Paul Shumba, of Harare, Zimbabwe; B.Sc. University of Lagos, 1983. Population Dynamics.

James Baker Sitrick, Jr., of Salisbury, Conn.; B.A. Brown University, 1983. International Health.

Mark Bernard Sostrin, of Syracuse, N.Y.; B.S. Rutgers University, 1981. Biostatistics.

Susan Connor Steinberg, of Potomac, Md.; B.S. University of Maryland, 1966; M.S., 1977. Health Policy and Management. Behavioral Sciences and Health Education.

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Jorge Francisco Trejo Gutierrez, of Guadalajara, Mexico; B.S. Institute of Sciences, 1972; M.D. University of Guadalajara, 1980. Epidemiology.

Farris K. Tuma, of Bethesda, Md.; B.S. Towson State University, 1986. Health Policy and Management. Health Finance and Management.

Marie Annette Vaughan, of Wheaton, Md.; B.S. University of Maryland, 1982. Environmental Health Sciences. Radiation Health Sciences.

Luisa Paula Wallace, of Bedminster, N.J.; B.A. The Johns Hopkins University, 1987. Population Dynamics.

Donald Lee Weidemann, of Linthicum, Md.; B.S. Pacific Union College, 1980; M.A., 1981. Health Policy and Management. Health Finance and Management.

MASTERS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Lynne Ann Akerson, of Boylston, Mass.; B.A. Wellesley College, 1985.

Akinwunmi Akinyemi, of Lagos, Nigeria; M.B.B.S. University of London, 1966.

Wondu Alemayehu, of Addis Ababa, Ethiopia; M.D. Addis Ababa University, 1973.

Abdikamal Ali-Salad, of Mogadishu, Somalia; M.D. Somali National University, 1979.

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Melanie Claire Bacon, of Takoma Park, Md.; B.A. American University, 1983.

Randale Eugene Bass, of Birmingham, Ala.; B.S. Auburn University, 1979; M.D. University of South Alabama, 1983.

Geoffrey Allen Beckett, of Brunswick, Me.; B.S. Western Michigan University, 1977.

Helena Bedoya, of Lima, Peru; D.Med. San Marcos University, 1976.

Robert Cyril Bollinger, Jr., of Baltimore, Md.; B.A. Haverford College, 1979; M.D. Dartmouth University, 1984.

Mary Abbott Bolte, of Baltimore, Md.; B.S.N. University of Virginia, 1979.

August Louis Bourgeois, of Gaithersburg, Md.; B.S. Rutgers University, 1971; Ph.D. Georgetown University, 1975.

Betsy Brach, of Montclair, N.J.; B.S.N. Vanderbilt University, 1979; M.S.N. 1981.

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Gladys Branic, of Bennettsville, S.C.; B.A. Alma College, 1968; D.S.W. University of California, Los Angeles, 1976; M.D. The Medical College of Pennsylvania, 1986.

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The Topographical Anatomy of the Sea Otter Enhydra lutris.

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The Surgical Anatomy of the Sternal Blood Supply as Related to Complications of Coronary Bypass Surgery.

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Retroviral Vectors: A Means to Study Viral Infections and Neuronal Transformation.

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Acquisition of Curvatures of the Notochord and Vertebral Column in the Human Embryo.

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Purification and Biochemical Analysis of Rat Liver Nuclear Lamins.

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Isolation of cDNA for Vinculin and Characterization of its mRNA.

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A C.T. Scan Atlas of the Nasal Cavity and Paranasal Sinus Anatomy.

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"Out of Sight, Out of Mind?": The Daniel Turner-James Blondel Debate Over Maternal Impressions.

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Anatomical Relationship Between the Lower Thoracolumbar Sympathetic Chain and the Spinal Cord of the Rat.

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Charles K. Snell, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1984. Electrical Engineering.

Suzette Sommerer, of Silver Spring, Md.; B.S. Washington University, 1979. Applied Physics.

John Joseph Squirlock, of Laurel, Md.; B.S. University of Scranton, 1985. Electrical Engineering.

Paul John Stasko, Jr., of Ellicott City, Md.; B.S. University of Scranton, 1984. Computer Science.

Victoria Holt Stauffer, of Severna Park, Md. Computer Science.

Marc C. Stegall, of Laurel, Md.; B.S. University of Maryland, 1984. Computer Science.

Roy Bryan Stoker, of Baltimore, Md.; B.S. North Carolina State University, 1984. Electrical Engineering.

Marc J. Storch, of Laurel, Md.; B.A. University of Wisconsin, 1982. Computer Science.

Stephen Eric Storms, of Baldwin, Md.; B.A. La Salle College, 1969. Computer Science.

Wendy Duckworth Streitz, of Elkridge, Md.; B.S. Harvey Mudd College, 1983. Electrical Engineering.

Steven Mark Stuckenschndr, of Silver Spring, Md.; B.A. Loyola College, 1979. Computer Science.

Charles F. Suter, of Columbia, Md.; B.S. Eastern Washington University, 1985. Computer Science.

Christine Matievich Sutton, of Sykesville, Md.; M.S. Pennsylvania State University, 1981. Computer Science.

Wei-Kuo Tao, of Greenbelt, Md.; B.S. National Central University, Taiwan, 1974; M.S. University of Illinois at Urbana-Champaign, 1978; Ph.D., 1982. Computer Science.

Gary Charles Tartanian, of Laurel, Md.; B.S. University of Maryland, 1983. Electrical Engineering.

Michelle Rose Taylor, of Highland, Md.; B.S. Drexel University, 1982. Electrical Engineering.

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Kevin C. Tidemann, of Washington, D.C.; B.S. University of Maryland, 1980. Computer Science.

David Eric Timmons, of Columbia, Md.; B.S. University of Tennessee, 1983. Electrical Engineering.

Charlene A. Tinney, of Laurel, Md.; B.S. Pennsylvania State University, 1982. Computer Science.

Paul Anthony Tolsma, of Laurel, Md.; B.S. Stevens Institute of Technology, 1981. Electrical Engineering.

Richard Sylvester Townsend, Jr., of Severna Park, Md.; B.S. Capitol Institute of Technology, 1972. Technical Management.

Felix Chi-Hung Tong, of Derwood, Md.; B.S. University of Illinois, 1976; M.S. University of Michigan, 1979. Computer Science.

Chong Quoc Tran, of Herndon, Va.; B.S. University of Maryland, 1984. Electrical Engineering.

James Barry Truscello, of Baltimore, Md.; B.S. Virginia Polytechnic Institute and State University, 1985. Electrical Engineering.

Gregory B. Turetzky, of Silver Spring, Md.; B.A. Cornell University, 1985. Computer Science.

Denise Robin Underwood, of Columbia, Md.; B.S. Furman University, 1984. Computer Science.

Mark Robert Unkenholz, of Silver Spring, Md.; B.S. George Washington University, 1983. Electrical Engineering.

Douglas J. Vanesko, of Baltimore,, Md.; B.S. The Johns Hopkins University, 1986. Computer Science.

Gail A. Vanovitch, of Crofton, Md.; B.S. Carnegie-Mellon University, 1983. Numerical Science.

Gregory Alan Velott, of Rockville, Md.; B.S. University of Maryland, 1983. Computer Science.

Shon D. Vick, of Baltimore, Md.; B.A. Rutgers University, 1980. Computer Science.

Kathryn Kuzmich Vogel, of Ellicott City, Md.; B.S. Drexel University, 1983. Electrical Engineering.

Thomas William Vollmer, of Edgewater, Md.; M.S. Seton Hall University, 1972. Computer Science.

Susan Ailene von der Lippe, of Silver Spring, Md.; B.S. James Madison University, 1984. Computer Science.

Francis Howard Walker, of Columbia, Md.; B.S. Cornell University, 1982. Electrical Engineering.

Ning Wu Wang, of Columbia, Md.; B.S. National Cheng-Kung University, 1972; M.S. University of Ottawa, 1977. Computer Science.

Christopher Bryan Ward, of Glen Burnie, Md.; B.S. University of Maryland, 1986. Computer Science.

Ronald G. Wardell, of Beltsville, Md.; B.S. University of Delaware, 1962. Electrical Engineering.

Craig Allen Washinger, of Ellicott City, Md.; B.S. Shippensburg University, 1984. Computer Science.

Thomas Allan Waters, of Columbia, Md.; B.S. University of Maryland, 1975. Electrical Engineering.

Steven John Webster, of Stevensville, Md.; B.S. Clarkson University, 1985. Electrical Engineering.

Darlene Moran West, of Annapolis, Md.; B.A. Western Maryland College, 1972. Computer Science.

Beverly Marcy Wetering, of Hanover, Md.; B.S. Bloomsburg University, 1977. Computer Science.

David James Wetzig, of Columbia, Md.; B.S. Bowling Green State University, 1985. Computer Science.

Victoria L. Weygandt, of Rockville, Md.; B.S. Allegheny College, 1983. Computer Science.

Mary E. Wiechec, of Severn, Md.; B.A. Marygrove College, 1983. Computer Science.

Kevin Eugene Willey, of Ellicott City, Md.; B.S. Westminster College, 1984. Computer Science.

Laura Ann Williamson, of Laurel, Md.; B.S. Merrimack College, 1984. Computer Science.

Simon P. Wing, of Beltsville, Md.; B.S. University of Arizona, 1984. Computer Science.

Terry Soule Witowsky, of Middletown, Md.; B.S. Worcester Polytechnic Institute, 1982. Computer Science.

Stanley Michael Wojnar, of Laurel, Md.; B.S. University of Pittsburgh, 1977. Technical Management.

Michael Edward Wolek, of Laurel, Md.; B.S. Pennsylvania State University, 1982. Computer Science.

Joseph Patrick Wolfewicz, of San Francisco, Calif.; B.A. University of Michigan, 1983. Computer Science.

Margaret Wanda Wood, of Upper Marlboro, Md.; B.S. University of Maryland, Eastern Shore, 1985. Computer Science.

Randel Wood, of Dallastown, Pa.; B.S. United States Naval Academy, 1977. Technical Management.

William A. Woodard, of Fairfax Station, Va.; B.S. University of Maryland, 1978. Technical Management.

William Alan Woolf, of Silver Spring, Md.; B.S. George Washington University, 1979; M.S., 1983. Technical Management.

David Parke Word, of Laurel, Md.; B.S. Virginia Polytechnic and State University, 1982. Computer Science.

Edward W. Yee, of Ellicott City, Md.; B.A. Yale University, 1980. Computer Science.

Shu-Yin Yeh, of Silver Spring, Md.; B.S. Gztung Institute of Technology, 1975; M.S. Virginia Polytechnic Institute and State University, 1978. Computer Science.

Alice Marie Yonkoski, of Pasadena, Md.; B.S. University of Maryland, 1981. Technical Management.

Kyle Michael Young, of Columbia, Md.; B.S. University of Florida, 1978. Computer Science.

David Richard Zaret, of Baltimore, Md.; M.A. University of Michigan, 1972; Ph.D. Brown University, 1978. Computer Science.

Michael John Zeher, of Eldersburg, Md.; B.S. Capitol Institute of Technology, 1982. Computer Science.

Kevin Patrick Zemejda, of Columbia, Md.; B.S. University of Maryland, 1984. Computer Science.

Tracy Sue Zimmerman, of Longmeadow, Mass.; B.A. Goucher College, 1984. Computer Science.

Gregory D. Zudock, of Rockville, Md.; B.S. Northwestern University, 1982. Computer Science.

MASTERS OF SCIENCE IN ENGINEERING

in The G.W.C. Whiting School of Engineering

Deepak Agarwal, of Meerut, India. Civil Engineering.

In Situ Calibration of Constitutive Models—Preliminary Feasibility Study.

Krishan Kumar Batta, of Nabha, India; B.Tech. Regional Engineering College, Warangal, India, 1984. Mechanical Engineering.

An Optical Technique for the Measurement of Crack Tip Opening Displacement for both Quasi static and High Loading Rates.

Frederick Arthur Bonner, II, of Syosset, N.Y.; B.S.E. University of Michigan, Ann Arbor, 1986. Geography and Environmental Engineering.

Donald Hodges Bowman Braswell, of Pampa, Texas; B.S. United States Naval Academy, 1986. Electrical and Computer Engineering.

Jennifer Gordon Buchner, of Little Silver, N.J. Computer Science.

Ingrid Karin Busch, of Jones, Mich. Mathematical Sciences.

Monica Nancy Canilang, of Akron, Ohio; B.S.E.E. The Johns Hopkins University, 1987. Computer Science.

Chaomei Chen, of Beijing, China. Mathematical Sciences.

Douglas Chin, of Elmhurst, N.Y.; B.S. Massachusetts Institute of Technology, 1985. Chemical Engineering.

A Study of Silica Formation in a Counterflow Diffusion Flame.

Gregory Scott Chirikjian, of Potomac, Md. Mechanical Engineering.

Lagrangian Formulation of Dynamical Equations Governing Appendage Deployment from Spacecraft.

Angela Bonita Clark, of Washington, D.C.; B.S. University of Pennsylvania, 1985. Chemical Engineering.

An Experimental Study of the Effects of an Entrainer on the Vapor-Liquid Equilibria in Mixtures Containing Model Coal Compounds.

Ross Edward Conklin, Jr., of Durham, N.C.; B.S.E.E. The Johns Hopkins University, 1987. Electrical and Computer Engineering.

Patricia Bell Crowe, of Arlington, Va.; B.A. University of Virginia, 1982. Geography and Environmental Engineering.

Ronald Anthony Dombro, of Calumet City, Ill.; B.S. University of Illinois, 1982. Chemical Engineering.

Lei Fang, of Shanghai, China; Certificate Shanghai University of Science and Technology, 1978. Mechanical Engineering.

Dynamic Fracture Initiation in a Three Point Bend Tool Steel Specimen.

Ann Elizabeth Friese, of Hydes, Md. Computer Science.

William Paynter Hanson, of Elliottsburg, Pa.; B.S. Dickinson College, 1980. Materials Science and Engineering.

X-ray Topography of Single Crystal Quartz Using White Beam Synchrotron Radiation.

Anthony Saudray Harrington, of Worthington, Ohio; B.S. Harvey Mudd College, 1986. Electrical and Computer Engineering.

Robert Clinton Hoffman, of Mt. Airy, Md.; B.S. Loyola College, 1982. Materials Science and Engineering.

An Erasable Optical Storage Medium Based on an Organometallic Charge-Transfer Salt.

Md Saiful Islam, of Dhaka, Bangladesh; B.S. Bangladesh University of Engineering and Technology, Dhaka, 1983. Civil Engineering.

Sivakolunthunathan Kesavanathan, of Chulipuram, Sri Lanka; B.S. University of Peradeniya, Sri Lanka, 1981. Civil Engineering.

Mary Beth Kiszka, of South Bend, Ind.; B.S. University of Notre Dame, 1985. Chemical Engineering.

Experimental and Modeling Techniques Used in the Determination of High-Pressure Phase Behavior.

Spryridon A. Kontogiorgis, of Athens, Greece. Computer Science.

Alan Jed Kosansky, of Amherst, N.Y.; B.S. Rutgers University, 1985. Mathematical Sciences.

Heinan H. Landa, of Potomac, Md. Electrical Engineering and Computer Science.

Panayotis Elias Lazanas, of Athens, Greece. Electrical and Computer Engineering.

Carol Ann Lebowitz, of Annapolis, Md.; B.A. The Johns Hopkins University, 1986. Materials Science and Engineering.

Coherence Multiplexed, Two-Illumination Source Contouring using Quasi-Heterodyne Holographic Interferometry.

Eric Arthur Lindgren, of Mountain Lakes, N.J.; B.S. The Johns Hopkins University, 1986. Materials Science and Engineering.

The Use of Ultrasonic Correlation Methods for the Investigation of Phase Transitions in Polytetrafluoroethylene and the Precipitation Hardening Process in 2024 Aluminum Alloy.

Ning Lu, of Fuzhou, Fujian, China; B.S. Wuhan Institute of Building Materials, China, 1982; M.S., 1984. Civil Engineering.

Ching-hsing Luo, of Shiaur-Jiah, Taiwan; B.S. National Chaio Tung University, 1980; M.S. National Taiwan University, 1982. Biomedical Engineering.

An Improved Ultrasensitive Transducer for Isometric Force Measurements of Single Cardiac Muscle Cells.

Premchand Nagaraj Malali, of Banglore, India. Mechanical Engineering.

Thermal Fields Generated by Dynamic Mode III Fracture in Ductile Materials.

Balrina Malik, of Bhilai, India; B.S. Ravishankar University, Raipur, 1981; M.S. Indian Institute of Technology, Delhi, 1983; M.Tech., 1985. Chemical Engineering.

Diane Markakis, of Baltimore, Md. Mathematical Sciences.

André Mark McDonald, of Kingston, Jamaica. Mechanical Engineering.

Natural Convection Heat Transfer from Vertical Parallel Plates with Isoflux Boundary Condition.

Heather McIlvried, of Pittsburgh, Pa.; B.S. Pennsylvania State University, 1985. Geography and Environmental Engineering.

Deborah Marie Mechtel, of Baltimore, Md.; B.S.M.E. University of Virginia, 1982. Electrical and Computer Engineering.

Venkatakrishna Reddy Meda, of Hyderabad, India; B.E. Osmania University, India, 1984. Civil Engineering.
A Fully-Integrated General Finite Element for Thick and Layered Plates.

John Stephen Morgan, of Gaithersburg, Md.; B.S. Loyola College, 1984. Materials Science and Engineering.
Magnetic Substitutions and Superconductivity in Yttrium-Barium-Copper-Oxide and the Copper Isotope Effect in Yttrium-Barium-Copper-Oxide.

Janet Victoria Murray, of Richmond, Va.; B.S.E.E. The Johns Hopkins University, 1987. Computer Science.

Thang Dinh Nguyen, of Alexandria, Va.; B.S. Virginia Polytechnic Institute and State University, 1982; M.S., 1983. Electrical and Computer Engineering.
Real Time Pitch Detection Using Centers of Mass as Time Markers.

Deborah Lynn Nykyforchyn, of Columbia, Md.; B.S. Towson State University, 1974; B.S. Auburn University, 1980. Civil Engineering.
Stability Analysis of the Slope of an Embankment Constructed at Washington National Airport.

Claire Denise O'Neill, of Catonsville, Md.; B.S.E. Princeton University, 1978. Geography and Environmental Engineering.

A. K. Parameswaran, of Madras, India; B.Tech. Indian Institute of Technology, Kampur, 1985. Chemical Engineering.
Extremely Thermophilic Archaebacteria of the Genus Pyrodictium: Effect of Yeast Extract and Hydrogen and Carbon Dioxide Partial Pressures on Growth and Sulfide Production.

Dan Schonfeld, of Northridge, Calif. Electrical and Computer Engineering.

Jason Mitchell Shapiro, of Aberdeen, N.J.; B.S. The Johns Hopkins University, 1986. Mechanical Engineering.
An Experimental Method for Determination of Dynamic Fracture Toughness.

Gary Laurence Siegel, of Morristown, N.J. Computer Science.

Sharon Lee Smith, of Farmington, Conn.; B.S. Lafayette College, 1986. Computer Science.

Kenneth Richard Speck, of Baltimore, Md. Materials Science and Engineering.
Electrical and Optical Switching in Gel-Derived Vanadium Dioxide Thin Films.

Wei-Wen Su, of Taipei, Taiwan; B.S. National Cheng Kung University, 1985. Chemical Engineering.
Engineering Studies of Extremely Thermophilic Archaebacteria: Sulfolobus acidocaldarius *and* Pyrococcus furiosus.

David Crowe Swanson, of New Canaan, Conn.; B.A. Bates College, 1982. Mathematical Sciences.

Sudhakar Thyagarajan, of Bombay, India. Mechanical Engineering.
The Effect of Temperature on the Stress and Deformation States in a Notched HSLA-100 Bar.

Edward Joseph Tucholski, of Buffalo, N.Y.; B.S. United States Naval Academy, 1981. Materials Science and Engineering.
Three Dimensional Surface Representations of Linear Elastic Anisotropy in Cubic Single Crystals.

Kuo-Chiang Wang, of Taipei, Taiwan; B.S. National Chiao Tung University, 1983. Mechanical Engineering.
Attachable Interferometric Strain Gages.

Sidney Wen-Hsin Wang, of Cockeysville, Md.; B.S.E.E. The Johns Hopkins University, 1987. Computer Science.

MASTERS OF ARTS

in The G.W.C. Whiting School of Engineering

Werner Helmut Siebert, of Neustadt, West Germany; Diploma University of Karlsruhe, 1983. Geography and Environmental Engineering.

Pearl Peller Slomowitz, of Monsey, N.Y. Geography and Environmental Engineering.
The Reductive Dissolution of Co(III) Oxides.

Mary Elizabeth Webb, of Mansfield, Mass.; B.A. University of Rochester, 1986. Geography and Environmental Engineering.

MASTERS OF ARTS

in The School of Arts and Sciences

Syed Farid Alatas, of Singapore; B.S. University of Oregon at Eugene, 1983. Sociology.

Gina Lourdes Delgado Apostol, of Tacloban City, Philippines; B.A. University of the Philippines, 1984. Writing Seminars.
Four Stories.

Rosa Maria Barboza Tumscitz Araujo, of Rio de Janeiro, Brazil; Certificate, Pontifical Catholic University of Rio de Janeiro, 1970; M.A. University of Paris, Nanterre, 1974.

MacDonald King Aston, of Baltimore, Md.; B.A. University of California at Irvine, 1985. Classics.

Satyen Gowrishanker Baindur, of Bangalore, India; B.S. St. Stephen's College at the University of Delhi, 1982; M.S., 1984. Physics and Astronomy.

Udai Basavaraj, of Nepean, Ontario, Canada. Mathematics.

Janice Sandra Berman, of Baltimore, Md. Psychology.
Affective responses to attitude objects: Measurement and validation.

Carole R. Bernstein, of New York, N.Y.; B.A. University of Pennsylvania, 1981. Writing Seminars.
Damaged Goods.

Lanfranco Blanchetti-Revelli, of Torino, Italy; Certificate, Universita di Torino, 1984. Anthropology.

Harriet Anastasia Boetzelen, of York, Pa. Psychology.
A Comparison of Drinking Histories of Male and Female Alcoholics.

Daniel G. Bonneterre, of Montreal, Canada; B.A. University of Montreal, 1982; M.A., 1985. Near Eastern Studies.

Michael Borch, of Weybridge, England. Political Science.
American Foreign Policy in Relation to the Israel/Arab Conflict—A History of Change, 1972-82.

Christopher Mark Boswell, of Cashmere, Wash. Physics and Astronomy.

Janet Rebecca Bowdan, of South Hadley, Mass. English.

Richard Francis Braaten, of Atlanta, Ga.; B.A. Duke University, 1982. Psychology.

Alan Christopher Braddock, of Iowa City, Iowa. History of Art.

Susan Brobst, of Baltimore, Md. Chemistry.

John Gregory Brown, of Durham, N.C.; B.A. Tulane University, 1982; M.A. Louisiana State University, 1984. Writing Seminars.
Degas' House and Other Stories.

Edna Bryn-Noiman, of Beer-Sheva, Israel; B.A. Ben Gurion University of the Negev, 1977; M.A. Tel Aviv University, Israel, 1983. Philosophy.

Scott Alan Budzien, of Memphis, Tenn.; B.S. Rhodes College, 1985. Physics and Astronomy.

Katherine Ann Byse, of Kokomo, Ind. French.

Anne Monica Callan, of Dublin, Ireland; B.A. Portland State University, 1985. Writing Seminars.
Idir Thir Is Tir Eile: Between Two Hearths.

Karen Ann Canella, of Delta, Pa.; B.S. Drexel University, 1980. Chemistry.

Wan Chen, of Xian, China. Physics and Astronomy.

Ning Chia, of Beijing, China; B.A. Beijing Normal University, 1981. History.

Mair Elisa Annabelle Churchill, of Radford, Va.; B.A. Swarthmore College, 1981. Chemistry.

Cynthia Watt Clough, of Lineboro, Md.; B.A. Goucher College, 1982. Writing Seminars.
Fair Fish and Others.

Adam S. Cohen, of Merrick, N.Y. History of Art.

Peter Stockton Cooper, of Vienna, Va.; B.S. Virginia Polytechnic Institute and State University, 1981. Chemistry.

Kimberly Ann Coplin, of Carrollton, Ohio; B.A. Denison University, 1985. Physics and Astronomy.
A Statistical Analysis of the Ultraviolet H_2 Emissions from the Jovian Equatorial Region.

Loren Dare Council, of Santa Fe, N.M.; B.A. Reed College, 1982. Anthropology.

Casey Timothy Cremins, of Germantown, Md. Mathematics.

Arthur Menadier Cromwell, of Baltimore, Md.; B.S. Loyola College, 1985. Hispanic and Italian Studies.

Robert David Crouch, Jr., of Frederick, Md.; B.A. Duke University, 1978; M.S. Shippensburg University, 1985. Chemistry.

Dorothea Mary Cummings, of Cherry Hill, N.J.; B.A. Glassboro State College, 1970; M.A. University of Pennsylvania, 1975. Writing Seminars.
Conversion.

David Richard Currie, of London, Canada; B.A. University of Western Ontario, 1982. History.

Paul Talbot Decker, of Jacksonville, Ill. Political Economy.

Eugenio Angel Diaz-Bonilla, of Buenos Aires, Argentina; Licenciado en Economia, Universidad de Buenos Aires, 1972; M.A. The Johns Hopkins University, 1985. Political Economy.

Mauro Dorato, of Rome, Italy; Laurea, University of Rome, 1982. Philosophy.

Julia Lynn Driver, of New York, N.Y.; B.A. University of Texas at Austin, 1983. Philosophy.

Daniel William Dubelman, of Englewood Cliffs, N.J.; B.A. Cornell University, 1987. Writing Seminars.
American Trash.

Mary Kathleen Elder, of Annapolis, Md.; B.A. Goucher College, 1986. Writing Seminars.
Counterparts.

Charles Christopher Euchner, of Huntington, N.Y. Political Science.

Lori Beth Frank, of Haddonfield, N.J.; B.A. University of Delaware, 1985. Psychology.

Craig Rein Frisch, of Maplewood, N.J.; B.A. The Johns Hopkins University, 1981. Hispanic and Italian Studies.

Stephen Neil Garfinkel, of Pittsburgh, Pa.; B.A. University of Pennsylvania, 1984. English.

Paul Chrisholm Genest, of Toronto, Canada; B.A. University of Guelph, 1981. Philosophy.

Michael I. Giden, of Sherman Oaks, Calif.; B.A. Haverford College, 1984. History of Art.

David Max Goloff, of Dayton, Ohio; B.S. University of Dayton, 1983. Mathematics.

Catharine Louise Good, of Cuernavaca Morelos, Mexico; B.A. Scripps College, 1973. Anthropology.

Rebekah Ann Grossman, of Pennington, N.J.; B.A. Goucher College, 1987. Writing Seminars.
The Quiet Hour.

Daifang Gu, of Qingdao, China; B.S. Fudan University, 1982. Earth and Planetary Sciences.

Liangping Guo, of Zhengzhuo, China; B.A. Beijing Normal University, 1985. Sociology.

Walter Sims Harley, of Baltimore, Md.; B.A. The Johns Hopkins University, 1986. Psychology.

Deborah Ann Heath, of Minneapolis, Minn.; B.A. Reed College, 1975; M.A. University of Minnesota, 1978. Anthropology.

David Floyd Hersey, of Silver Spring, Md.; B.S. Trinity University, 1984. Chemistry.

Robert James Hicken, of Church Lawton, England. Physics and Astronomy.

Oussama Adnan Himani, of Beirut, Lebanon. Political Economy.

Roxanne Rhodes Hoare, of Arlington, Va. English.

Laura June Hostetler, of Hillsborough, N.C.; B.A. Indiana University, 1975. Classics.

Stefanie Harris Hunt, of Baltimore, Md.; B.A. Towson State University, 1984. Political Economy.

Hidehiro Ikeno, of Yokohama, Japan; Certificate, Hitotsubashi University, 1982; M.A., 1984. Political Economy.

Hideki Izawa, of Marugame City, Japan; B.Econ. Kobe University, 1980; M.Econ., 1982. Political Economy.

Steven James Johnston, of Baltimore, Md.; B.A. University of Southern California, 1982. Political Science.
Rousseau, Nature, Politics: Or How Jean-Jacques Learned to Trust in God.

Sahoko Kaji, of Tokyo, Japan; B.A. Keio University, 1982; M.A., 1984. Political Economy.

Gregor Addison Kalas, of Washington, D.C. History of Art.

Pamela B. Kennedy, of Bethesda, Md.; B.A. Wesleyan University, 1984. Writing Seminars.
Saints.

Laurence Harwood Knighton, of Baltimore, Md.; B.A. University of Maryland, 1969. Classics.

Joseph Henry LaCasce, of Ellsworth, Maine. Physics and Astronomy.

Julie Christine Leana-Cox, of Jessup, Md. Biology.

Erik Gray Ledbetter, of Cheverly, Md. History.
Free Capital: Republican Party Ideology and the Session Crisis, 1860-1861.

Ming-Guang Leu, of Taipei, Taiwan; B.S. Tamkang University, 1980; M.S. 1982. Mathematics.

Emily Joan Leventhal, of Westbury, N.Y.; B.A. The Johns Hopkins University, 1987. Writing Seminars.
The Essence of Photography and the Emergence of an Image-World.

Shaozhong Li, of Shanghai, China; B.S. Fudan University, 1982; M.S., 1985. Physics and Astronomy.

Xiaoxiong Li, of Chengdu, China; B.A. Sichuan University, 1982. History.

Tong Li, of Zunyi, China; B.A. Guizhou University, 1982. History.
The Population Change and Social Mobility among the Chinese Immigrants in New York City, 1880-1900.

David Ross Lipsky, of New York, N.Y.; B.A. Brown University, 1987. Writing Seminars.
Relativity.

Hongji Liu, of Nanjing, China; B.A. Nanjing Foreign Languages Institute of PLA, 1982. Writing Seminars.
Individualism and the American Dream.

Stephen L. Longenecker, of Quarryville, Pa.; B.S. Shippensburg University, 1973; M.A. West Virginia University, 1975. History.

Ming Lu, of Nanjing, China. Physics and Astronomy.

Christopher David Luebbe, of Chambersburg, Pa. Humanities.

Grant Edward Mabie, of Osceola, Ind.; B.A. Purdue University, 1984. History.

Mir Mahboob Mahmood, of New York, N.Y.; B.A. Princeton University, 1981. Political Science.
The Legitimation of Judicial Discourse.

Jessica Rose Manke, of Charlottesville, Va. Humanities.

Shi-Shan Mao, of Taipei, Taiwan; B.S. National Tsing Hua University, 1978. Chemistry.

Thomas Edward Marier, of Arlington Heights, Ill.; B.A. University of Iowa, 1983; M.A., 1986. Classics.

Rene Sue Marion, of Ames, Iowa; B.A. University of Iowa, 1984. History.

Roland Edward Martin, III, of Crofton, Md.; B.A. The Johns Hopkins University, 1985. Mathematics.

Mel Eugene Martinez, of Seattle, Wash.; B.S. University of Washington, 1986. Physics and Astronomy.

Timmie Sue McArthur, of Bozeman, Mont.; B.S. Northwestern University, 1983. Mathematics.

Meredith Louise McGill, of Simsbury, Conn.; B.A. Williams College, 1983. English.

Jodi Beth Mikalachki, of London, Canada; B.A. University of Toronto, 1983. English.

Lisa Kim Miller, of McGraw, N.Y.; B.A. The Johns Hopkins University, 1984. Anthropology.

Tyrus Henry Miller, of Philadelphia, Pa.; B.A. The Johns Hopkins University, 1986; M.A., 1986. Writing Seminars.
Earthworks.

Jonathan Toby Mordkoff, of Baltimore, Md.; B.A. The Johns Hopkins University, 1986. Psychology.

James Charles Morrell, of Camillus, N.Y.; B.S. Cornell University, 1982. Biology.

Sarah Elizabeth Morse, of Lincoln, Mass.; B.A. Brown University, 1981; M.S. University of Rochester, 1985. Chemistry.

Stephen Mrenna, of Beaver, Pa. Physics and Astronomy.

Paul Joseph Murphy, of Bethesda, Md.; B.A. The Johns Hopkins University, 1984. Writing Seminars.
Clockwork.

Mieko Nishida, of Yanai-shi, Yamaguchi, Japan. History.

Caragh Mary O'Brien, of St. Paul, Minn.; B.A. Williams College, 1984. Writing Seminars.
Surface Tension and Other Short Stories.

Andrew Christen Olson, of Lincoln, Neb.; B.S. Eckerd College, 1984; M.A. The Johns Hopkins University, 1985. Psychology.

Robert Anthony Olwell, of Baltimore, Md.; B.A. University of Wisconsin, 1983. History.

Kenneth David O'Reilly, of Auburn, Mass.; B.A. Clark University, 1987. Sociology.

Silvana Patriarca, of Torino, Italy; Laurea University Degli Studi di Torino, 1980. History.

Mark Austin Person, of State College, Pa.; B.A. Franklin and Marshall College, 1980; M.S. New Mexico Institute of Mining and Technology, 1984. Earth and Planetary Sciences.

Kai-Lit Phua, of Kuantan, Malaysia; B.A. University of Rochester, 1981. Sociology.

Ursula Porod, of Graz, Austria. Mathematics.

John Thomas Prendergast, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1980. Writing Seminars.

Relations and Other Stories.

Jeffrey John Rachlinski, of Baltimore, Md. Psychology.

Female Superiority and the Same-Sex Bias in Learning of Name-Trait Pairings.

Kali Prasad Rath, of Bhubaneswan, India; B.A. Utkal University, 1977; M.A., 1979. Political Economy.

Miriam Grace Reumann, of Philadelphia, Pa. Humanities.

Imran Riza, of New York, N.Y. Anthropology.

Kevin Christopher Robbins, of Portland, Ore.; B.A. Reed College, 1981. History.

Ann Elizabeth Roberson, of Columbia, Md. Biology.

Jeffrey Adam Robl, of Bel Air, Md.; B.S. Loyola College, 1982. Chemistry.

Ellen Mindy Shulman Roskes, of Baltimore, Md.; B.A. The Johns Hopkins University, 1985. Chemistry.

Florinda Ruiz, of Madrid, Spain. Classics.

Mark Edward Rush, of Boston, Mass.; B.A. Harvard University, 1983. Political Science.

The Paradigm Crisis in the Study of American Electoral Behavior: The Case of Convergence.

Flavia Sacchi, of New York, N.Y.; M.A. University of Edinburgh, 1977. Political Science.

The Politics of Migrant Workers: The Case of France: 1945-1980.

Michael Edward Schaffer, of Palos Verdes Estates, Calif.; B.A. Reed College, 1983. History.

Robert Jon Schreur, of Baltimore, Md.; B.A. Calvin College, 1985. English.

David Joseph Shide, of Larimore, N.D. Psychology.

James Sidbury, of Richmond, Va.; B.A. The Johns Hopkins University, 1980 . History.

Ahmad Naeem Siddiqui, of Islambad, Pakistan; B. Sc. University of the Punjab, 1977; M.Sc. Quaid-I-Azam University, Pakistan, 1981. Political Economy.

David Scott Simon, of Baltimore, Md.; B.S. Ohio State University, 1982. Physics and Astronomy.

Mark William Sincell, of Bozeman, Mont.; B.S. University of Southern California, 1986. Physics and Astronomy.

Tammy Ann Smecker, of Munhall, Pa.; B.A. The Johns Hopkins University, 1986. Physics and Astronomy.

Richard Ian Smith, of Baltimore, Md.; B.A. Wesleyan University, 1980. Political Science.

End Run or Punt?: Secretary of Defense Robert S. McNamara, the Military Services and Congress in Defense Procurement Politics.

Priscilla Jeanne Sneff, of State College, Pa.; B.A. Princeton University, 1979. Writing Seminars.

Ars Memoriae.

Hope Maxwell Snyder, of Hagerstown, Md.; B.A. College of William and Mary, 1982. Hispanic and Italian Studies.

Katherine Ann St. John, of Cupertino, Calif. Mathematics.

Andrea Leigh Starn, of Berkeley, Calif. History of Art.

Anne Summerscale, of Cambridge, Mass.; M.A.T. Harvard University, 1971. History of Art.

Claudia Swan, of Southfield, Mass. History of Art.

Arne Emil Tangherlini, of Auburn, Mass.; B.A. Harvard University, 1984. Writing Seminars.

Erik's Saga.

Maria Alison Threadgill, of McLean, Va.; B.A. Dartmouth University, 1985. Physics and Astronomy.

A Study of the Lyman-alpha Brightness of Eleven Comets.

Kerrie Margo Ticknor, of Reston, Va.; B.A. Union College, 1987. Writing Seminars.

The Space Between.

Michael Carlton Tolley, of Bel Air, Md.; B.A. Swarthmore College, 1984. Political Science.

Is Maryland Really "America in Miniature"?: A Look at One State's Experience with Voting Right Disputes.

Mary Elizabeth Treadway, of Delmar, N.Y.; B.A. Hamilton College, 1985. Psychology.

William Thomas Umbel, of Mifflinburg, Pa.; B.A. Eastern Nazarene College, 1977; M.Div. Nazarene Theological Seminary, 1980. History.

Steve Vejcik, III, of Annandale, Va.; Physics and Astronomy.

David Jonathan Waksman, of Brooklyn, N.Y. History.

Conservative Ideals: Plantation Mistresses in the Antebellum South.

Li-Shing Wang, of Taipei, Taiwan; B.A. National Taiwan University, 1982. Political Science.

The Meiji Restoration and the Hundred Days Reforms.

Margaret Frances Weidner, of Seattle, Wash.; A.A. Shoreline Community College, 1981; B.S. Seattle University, 1984. Chemistry.

Peter John Welch, of Marlow, England. Philosophy.

Robert Cary Welsh, of Fairfax, Va.; B.S. George Mason University, 1985. Physics and Astronomy.

Brenda Anne Wilson, of Fort Smith, Ark.; B.A. Barnard College, 1981. Chemistry.

James Benjamin Wofford, of Conover, N.C.; B.S. University of North Carolina, 1984. Physics and Astronomy.

Chan Yul Yoo, of Seoul, Korea; B.S. Yonsei University, 1980; M.A. American University, 1982. Political Science.

DOCTORS OF EDUCATION

in The School of Continuing Studies

James Buckley, III, of Eugene, Ore.; M.A. University of Oregon, 1978.

Charles Clifford Doggett, of Ellicott City, Md.; M.A. Loyola College, 1979.

Marsha Goldberg, of Arlington, Va.; M.A. Columbia University, 1974.

Caren Frances Ferris, of Ellicott City, Md.; B.A. University of Connecticut, 1973; M.S. Southern Connecticut College, 1973; M.Ed. Western Maryland College, 1975.

The Effectiveness of Multisensory Treatments on the Word Recognition and Spelling Performances of Low-Achieving Deaf Students.

Susan Hoffman, of Washington, D.C.; B.A. Smith College, 1966; M.Ed. Harvard University, 1973.

A Comparison of Cognitive and Auditory Memory Abilities of Gifted Children with Gifted Reading Achievement and Gifted Children with Lower Reading Achievement.

Gail Manchester Liss, of Baltimore, Md.; B.A. George Washington University, 1965; M..A., 1967.

The Development of a Criterion-Referenced Handwriting Test.

Sister Christine Manlove, of Baltimore, Md.; B.A. Loyola College, 1974; M.S., 1975; M.S. The Johns Hopkins University, 1981.

The Effects of Response Variation Training Procedures on the Generalized Performance of a Laundry Folding Task by Persons with Mental Retardation.

Jacqueline Ann Nunn, of Baltimore, Md.; B.S. Florida State University, 1970; M.Ed. Virginia Commonwealth University, 1971.

The Effects of Horizontal Job Enlargement on the Work Productivity of Students with Moderate and Severe Mental Retardation.

Carol A. Quirk, of Baltimore, Md.; B.A. University of Connecticut, 1972; M.A., 1975.

The Effects of Adding Verbal Cues to Instructional Prompts on the Performance of Independent Living Skills by Students with Severe Disabilities.

Paula Schmidt, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1970; M.S. Loyola College, 1973.

The Interrelationship of External Stresses, Coping Skills, and School Competency of Fifth Graders.

Edward Walton Schultz, of Gaithersburg, Md.; B.S. University of Maryland, 1979; M.S. Virginia Polytechnic Institute and State University, 1982; M.Ed. University of Virginia, 1982.

The Relationship Between Personality and Career Development Among Mildly Handicapped Students With Emotional/Behavioral Problems.

DOCTORS OF MUSICAL ARTS

in The Peabody Conservatory of Music

Andrew Bryan Cooperstock, of Indianapolis, Ind.; B.M. University of Cincinnati College-Conservatory of Music, 1981; M.M. Juilliard School of Music, 1983. Piano.

Gideon Lewensohn, of Jerusalem, Israel; B.M. Tel-Aviv University, 1978; Artist Diploma, 1980. Conducting.

The Floating Tower: Composition as Study in Andre Hajdu's Settings of the Mishnah.

Blair Woodruff Pethel, of Greensboro, N.C.; B.M. Greensboro College, 1981; M.M. The Johns Hopkins University, 1982. Piano.

Keith Emerson: The Emergence and Growth of Style, A Study of Selected Works.

Gordon Mark Sparber, of Mount Carmel, Pa.; B.M. The Johns Hopkins University, 1977; M.M. 1979. Piano.

Barbara Carol Thomson, of Highland Park, N.J.; B.A. Pennsylvania State University, 1969; M.M. Eastman School of Music, 1971. Organ.

DOCTORS OF SCIENCE

in The School of Hygiene and Public Health

Edgar Harvey Adams, of Rockville, Md.; B.S. Fordham University, 1963; M.S. Purdue University, 1966. Health Policy and Management.

Factors Associated with an Elevated Risk of Cocaine Use and Dependence.

Jerilyn Kay Allen, of Lutherville, Md.; B.S. Pennsylvania State University, 1970; M.S. University of Maryland, 1976. Behavioral Sciences and Health Education.

Factors Related to Functional Status Following Coronary Artery Bypass Surgery.

Thomas Joseph Beck, of Baltimore, Md.; B.S. University of Maryland, 1974; Sc.M. The Johns Hopkins University, 1978. Environmental Health Sciences.

Non Invasive Estimation of Structural Geometry in the Human Hip from Bone Mineral Image Data.

Amy B. Bernstein, of Seabrook, Md.; B.A. Swarthmore College, 1978; M.H.S.A. University of Michigan, 1980. Health Policy and Management.

The Effect of Hours of Work on Women's Use of Health Services.

Arlene Manns Butz, of Baltimore, Md.; B.S.N. Pennsylvania State University, 1973; M.S.N. The Catholic University of America, 1978. Maternal and Child Health.

The Anxiety-Asthma Morbidity Relationship in Children.

Elizabeth Ann Elliott, of Pottsville, Pa.; B.A. Goucher College, 1965; M.Ed. Pennsylvania State University, 1969; M.H.S. The Johns Hopkins University, 1984. Epidemiology.

Body Fat Distribution Type as an Endometrial Cancer Risk.

Thomas C. Hulsey, of Round O, S.C.; B.S. Baptist College at Charleston, 1974; M.S.P.H. University of South Carolina, 1976. Maternal and Child Health.

Behavior Assessment of Children in Foster Care.

Cheryl R. Kaplowitz, of Monsey, N.Y.; B.A. Boston University, 1972; M.S. Virginia Polytechnic Institute, 1975. Health Policy and Management.

The Effect of the Presentence Investigation on Sentence Outcome in Maryland.

Melkizedeck T. Leshabari, of Dar es Salaam, Tanzania; B.Sc. University Dar es Salaam, 1975; M.A., 1978. Behavioral Science and Health Education.

Factors Influencing School Adolescent Fertility Behavior in Dar-es-Salaam, Tanzania.

Michael Bracken Macdonald, of Baltimore, Md.; B.S. University of Notre Dame, 1977. Immunology and Infectious Diseases.

Vectorial Capacity and the Ecology of Malaria Transmission in Punjab, Pakiston.

Susan Druckemiller North, of Severna Park, Md.; B.S. Cornell University, 1967; M.S. University of California, San Francisco, 1970. Behavioral Sciences and Health Education.

Determinants of Continuation in Prenatal Care in Lower Socioeconomic Urban Blacks.

Karen Ehlke Reilly, of Silver Spring, Md.; B.A. University of Maryland, 1980. Health Policy and Management.

Changes in Maryland Hospital Admissions, Days, and Length of Stay Corresponding with Maryland Medical Cost Containment Policies of 1981.

Jane Dilliard Scott, of Garden City, N.Y.; B.S.N. Duke University, 1973; M.S.N. Wayne State University, 1978. Health Policy and Management.

Cervical Cancer Control: Adequacy of Follow-up Care.

Syi Su, of Taipei, Taiwan; B.S. National Taiwan University, 1975; M.P.H., 1977. Health Policy and Management.

A Patient Classification and Nurse Staffing System for a Teaching Hospital in Taiwan.

Shu-Hshieh Tien, of Taipei, Taiwan; B.S. Fu-Jen University, 1972; M.H.S. The Johns Hopkins University, 1983. Health Policy and Management.

The Impact of Two New Jersey Hospital Payment Systems on Expenditures for Major Movable Equipment: SHARE vs. DRG System.

Allison Miller Trinkoff, of Baltimore, Md.; B.S.N. University of Rochester, 1978; M.P.H. University of North Carolina, 1980. Mental Hygiene.

Predictors of Initiation of Psychotherapeutic Medicine Use.

Lisa Ann Werthamer-Larsson, of Baltimore, Md.; B.A. The Johns Hopkins University, 1975; M.S.W. Catholic University of America, 1982. Mental Hygiene.

The Epidemiology of Maladaptive Behavior in First Grade Children.

DOCTORS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Ra'eda Jiyad Al-qutob, of Amman, Jordan; M.B.B.S. Jordan University, 1982; M.P.H. The Johns Hopkins University, 1985. Maternal and Child Health.

Changes in Skinfold Thickness as Measures of Maternal Nutritional Status.

Laura Catherine Altobelli, of St. Louis, Mo.; B.S.N. University of Missouri, Columbia, 1974; M.P.H. The Johns Hopkins University, 1982. Maternal and Child Health.

Maternal Employment, Household Structure, and Health Care for Child Diarrhea in Urban Peru.

Carlos Castillo-Salgado, of Mazatlán, Mexico; J.D. Universidad Autonoma de Guadalajara, 1972; M.D. Universidad Nacional de Mexico, 1978; M.P.H. The Johns Hopkins University, 1981. Health Policy and Management.

Unmet Health Care Needs of Mexican American Children.

Marsha Denise Lillie-Blanton, of Houston, Texas; B.S. Howard University, 1975; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.

Alcohol Use and Abuse Among Black Women: Estimating Prevalence Rates and Health and Mental Health Service Utilization Patterns.

Salah Moh'd Mawajdeh, of Amman, Jordan; M.B.B.S. Jordan; University, 1982; M.P.H. The Johns Hopkins University, 1985. Health Policy and Management.

Levels of Care in Paediatric Specialty Clinics.

Mary Anne Mercer, of Sidney, Mont.; B.S. College of St. Teresa, 1966; M.P.H. The Johns Hopkins University, 1981. Maternal and Child Health.

Social Class Determinants of Child Growth in the Peruvian Sierra.

Elizabeth Solomon, of Baltimore, Md.; B.A. University of Illinois, 1971; B.S. State University of New York at Stony Brook, 1977; M.H.S. The Johns Hopkins University, 1982. Health Policy and Management.

The Long Term Effects of Head Trauma.

DOCTORS OF PHILOSOPHY

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Ago B. Ahene, of Accra, Ghana; B.Sc. University of Ghana, 1976; M.Sc., 1979; M.H.S. The Johns Hopkins University, 1983. Environmental Health Sciences.

Radioimmunochemical Methods for the Study of Melanogenesis.

George William Anderson, Jr., of Frederick, Md.; B.S. Florida Institute of Technology, 1975; M.S., 1977. Immunology and Infectious Diseases.

Viral and Host Determinants of Resistance to Rift Valley Fever in a Rat Model.

William Frank Athas, of Baltimore, Md.; B.S. University of Wisconsin at Madison, 1979. Epidemiology.

Recombinant Methods for Screening Human DNA Excision Repair Proficiency.

Kwamena Esenyi Baidoo, of Breman Asikuma, Ghana; B.Sc. University of Ghana, 1974. B.Sc., 1975. Environmental Health Sciences.

Technetium — 99M Labeling of Proteins.

Roger William Broseus, of Gaithersburg, Md.; B.Sc. Ohio State University, 1966; M.S. New York University, 1970. Environmental Health Sciences.

Gamma Ray and Neutron Dosimetry for a Self-shielded, Hospital Cyclotron.

Oona Maeve Renee Campbell, of Beirut, Lebanon; B.S. American University of Beirut, 1981; Sc.M. The Johns Hopkins University, 1983. Population Dynamics.

A Proseptcive Study of Breastfeeding Patterns and the Resumption of Ovarian Activity Postpartum.

Suzette C. Chance, of Baltimore, Md.; B.S. University of Minnesota, 1981. Biochemistry.

Membrane Proteins of Dense Lysosomes from Chinese Hamster Ovary Cells.

Carole B. Christian, of Birmingham, Ala.; B.S. Duquesne University, 1969; M.S. University of Maryland, 1979. Immunology and Infectious Diseases.

Interactions of Human Papillomavirus Type 1 with Cultured Cells of Respiratory Tract Origin.

Jinho Chung, of Seoul, Korea; B.S. Seoul National University, 1978; M.S., 1980. Environmental Health Sciences.

Role of Quinone Reductase in in vivo *Ethanol Metabolism and Toxicity.*

Noah Dan Cohen, of Toronto, Canada; B.A. University of Pennsylvania, 1979; V.M.D., 1983. M.P.H. The Johns Hopkins University, 1986. Epidemiology.

The Risk of Retroviral Transmission by Transfusion.

Margaret Anne Connolly, of Marion, Md.; B.S. Cornell University, 1978; M.S. Michigan State University, 1982. Biostatistics.

Logistic Models for Familial Association of Binary Traits.

Gail Adair Cornwall, of Hudson, Wis.; B.S. Brigham Young University, 1980; M.S., 1982. Population Dynamics.

Induction of Progressive Motility in Immature Hamster Caput Epididymal Spermatozoa in vitro: *A Model for the Study of Epididymal Sperm Sulflydryl Oxidation and its Role in the Maturation of Sperm Motility.*

Mary Frances Cotch, of Troy, N.Y.; B.A. State University of New York at Albany, 1983. Epidemiology.
Path Analysis of Familial Resemblance: Application to Pulmonary Function.

Steven Scott Coughlin, of San Diego, Calif.; B.S. University of Nevada, 1978; M.P.H. San Diego State University, 1984. Epidemiology.
A Case-Control Study of Dilated Cardiomyopathy.

Mary Shanna Croughan-Minihane, of Novato, Calif.; B.S. University of California, Davis, 1982. Epidemiology.
Morbidity Among Breech Infants According to Method of Delivery.

Mary Elias Deeb, of Beirut, Lebanon; B.A. American Univeristy of Beirut, 1973; M.P.H., 1976. Population Dynamics.
Household Structure as Related to Childhood Mortality and Morbidity among Low-income Areas in Amman, Jordan.

Susan Shiryn Eslami, of Lausanne, Switzerland; B.S. University of Lausanne, 1981. Population Dynamics.
Predictors of Ovulation in Breastfeeding Women in Manlia, the Philippines.

Sheila Taft Fitzgerald, of Reston, Va.; B.S.N. University of Wisconsin, 1964; M.S.N. University of Pennsylvania, 1973. Environmental Health Sciences.
Factors Influencing Return to Work after Percutaneous Transluminal Coronary Angioplasty.

Patricia Leehan Fleming, of Scotch Plains, N.J.; B.A. Montclair State College, 1968; M.S. Seton Hall University, 1976. Population Dynamics.
The Influence of Birth Spacing on Child Growth.

Shannon Lynne Gleason, of New Haven, Mich.; B.S. Wayne State University, 1980. Immunology and Infectious Deseases.
Diversity of the Autoantibody Response in Murine Experimental Autoimmune Thyroiditis.

Steven David Goodman, of Philadelphia, Pa.; B.A. University of Pennsylvania, 1981. Biochemistry.
Specific DNA—Protein Interactions in Gram Negative Bacteria.

Barbara Lee Greenberg, of Fort Lee, N.J.; B.S. University of Maryland, 1974; Sc.M. The Johns Hopkins University, 1980. Immunology and Infectious Diseases.
A Study on Measles Associated Diarrhea in Lima, Peru.

Yue-Liang Leon Guo, of Tainan, Taiwan; M.B. National Taiwan University, 1982; M.P.H. Harvard University, 1983. Environmental Health Sciences.
A Study of the Mechanism of Phosgene Induced Lung Injury: The Role of Arachidonate Mediators.

Jean Wood Gupta, of Baltimore, Md.; B.S. New Mexico Institute of Mining and Technology, 1974. Immunology and Infectious Diseases.
The Role of Papillomaviruses in Lower Genital Tract Neoplasia: A Study by in Situ Hybridization.

Doreen G. Hill, of Annapolis, Md.; B.A. Indiana University, 1973; M.S. Georgetown University, 1976; M.P.H. The Johns Hopkins University, 1978. Epidemiology.
A Longitudinal Study of a Cohort with Past Exposure to Radar: The MIT Radiation Laboratory Follow-up Study.

Ann Wu-Fung-Fung Hsing, of Taipei, Taiwan; B.S. China Medical College, 1979; M.P.H. University of California, Los Angeles, 1981. Epidemiology.
Pre-diagnostic Serum Hormones and Prostate Cancer.

Katherine Louise Hunting, of Mission Viejo, Calif.; B.S. University of California, Riverside, 1978; M.P.H. The Johns Hopkins University, 1981. Epidemiology.
Solvent Exposure and Accidents Among Painters.

Mohamed Sofi Ibrahim, of Cairo, Egypt; B.Sc. Ain Shams University, 1976; M.Sc., 1981. Immunology and Infectious Diseases.
Quantitative Studies on the Infection of Aedes scutellaris *Complex (*Diptera: Culicidae*)* and Meriones unguiculatus *(*Rodentia: Cricetidae*) with* Brugia pahangi.

Beryl Ann Koblin, of Baltimore, Md.; B.A. University of Delaware, 1978; Sc.M. The Johns Hopkins University, 1982. Epidemiology.
The Response of Preterm Infants to DPT Vaccine.

Chou-Chi Huang Li, of Rockville, Md.; B.S. National Taiwan University, 1973; M.S. University of Pittsburgh, 1975. Immunology and Infectious Diseases.
Expression and Characterization of the Human Papillomavirus Type 6b Open Reading Frame Proteins.

Robert Wilson Linkins, of Gaithersburg, Md.; B.A. Gordon College, 1979; M.P.H. University of California, Berkeley, 1983. Epidemiology.
Depressed Mood and Development of Cancer.

Saou-Hsing Liou, of Taipei, Taiwan; B.M. National Defense Medical Center, 1980. Environmental Health Sciences.
Biological Monitoring of Carcinogen Exposure Effects among Firefighters.

Kurt Richard Maurer, of Olney, Md.; B.A. University of Florida, 1970; M.A. Wichita State University, 1974. Epidemiology.
The Epidemiology of Gallstone Disease in the Mexican American, Cuban American and Puerto Rican Populations of the United States, 1982-84.

Geraldine Marie McQuillan, of New York, N.Y.; B.S. St. Bonaventure University, 1970; M.S. Catholic University of America, 1972. Epidemiology.
The Seroepidemiology of Hepatitis B Virus Infection in the United States, 1976-1980.

Kojo Anzah Mensa-Wilmot, of Bekwai, Ghana; B.Sc. University of Ghana, 1979. Biochemistry.
Purified Protein Systems for the Specific Initiation and Regulation of Bacteriophage Lambda DNA Replication.

Rebecca F. Moreland, of Baltimore, Md.; B.S.N. University of Virginia, 1974; M.P.H. The Johns Hopkins University, 1976. Environmental Health Sciences.
Medical Evaluation of Carpal Tunnel Syndrome in a Working Population.

Jaana Leena Myllyluoma, of Kauniainen, Finland; B.A. George Mason University, 1978; M.A. Georgetown University, 1980. Population Dynamics.
Lifestyle and First Pregnancy among Finnish Adolescents.

Cruz Maria Nazario-Delgado, of Trujillo Alto, Puerto Rico; B.A. University of Puerto Rico, 1966; M.S., 1976. Epidemiology.
A Case-Control Study of Gastric Cancer in Puerto Rico.

Cheryl Lynn Nickerson, of Portland, Me.; B.S. University of Maine, 1982. Environmental Health Sciences.
Suppression of Pulmonary Defenses during Virulent and Avirulent Influenza Virus Infections.

Gunta Iris Obrams, of Alexandria, Va.; B.S. Rensselaer Polytechnic Institute, 1977; M.D. Albany Medical College, 1977; M.P.H. The Johns Hopkins University, 1982. Epidemiology.
Leukemias in Telephone Lineman.

Euk Yul Oh, of Palos Verdes, Calif.; B.S. University of California, Los Angeles, 1981. Biochemistry.
Mechanism of DNA Repair by UvrABC Endonuclease of Escherichia coli.

Charles Bertram Osborne, of Chattanooga, Tenn.; B.S. University of Tennessee, 1982. Biochemistry.
Expression of Escherichia coli *Folypolyglutamate Synthetase in Chinese Hamster Ovary Cells.*

Linda Mendelsohn Pottern, of Bethesda, Md.; B.S. Fairleigh Dickinson University, 1975; M.P.H. Yale University, 1977. Epidemiology.
Clinical Outcomes of Childhood X-Irradiation for Lymphoid Hyperplasia.

Bonnie Susan Richter, of Rahway, N.J.; B.A. Clark University, 1975; M.P.H. University of Michigan, 1982. Epidemiology.
A Case-Control Study of Lead Exposure and Other Risk Factors for Gouty Arthritis.

Kathleen Clausing Raffaele, of Baltimore, Md.; B.A. Washington University, 1978; M.P.H. Columbia University, 1983. Environmental Health Sciences.
The Association between Changes in Memory and Changes in Brian Chemistry and Pathology following Acute or Chronic Organophosphate Exposure.

Karin Ann Rosenblatt, of Baltimore, Md.; B.A. University of California, Santa Cruz, 1975; M.P.H. University of Michigan, 1977. Epidemology.
Fibers and Ovarian Cancer—An Epidemiologic Study.

Mohammad Sarai, of Hamadan, Iran; B.S. University of Teheran, 1970; M.S.P.H., 1975. Environmental Health Sicences.
Some Factors Influencing the Survival of Coliform Bacteria in Aquatic Sediments.

Shelley Susan Sehnert, of Baltimore, Md.; B.A. College of Notre Dame of Maryland, 1976; M.S. University of Southern California, 1984. Environmental Health Sciences.
Physicochemical Determinants of the Respiratory Bioavailability of Particle-Adsorbed Environmental Agents.

Stephanie Lorraine Simek, of Stratford, Conn.; B.S. University of Connecticut, 1974; M.S., 1976. Immunology and Infectious Diseases.
The Characterization of the V-REL and C-REL Proteins.

Laura Avis Siminoff, of Pittsburgh, Pa.; B.A. McGill University, 1975; M.A. University of New Brunswick, 1978. Behavioral Sciences and Health Education.
Description and Correlates of Breast Cancer Adjuvant Treatment Decisions.

Eleanor Marie Simonsick, of Baltimore, Md.; B.A. The Johns Hopkins University, 1980. Behavioral Sciences and Health Education.
Hazards of Healthful Behavior: The Case of Long Distance Running.

Kathleen Specht, of Pennsburg, Pa.; B.S. Albright College, 1983. Environmental Health Sciences.
Characterization of the Photochemical Reaction of Psoralens with Fatty Acids.

Bonita Gay Taffe, of Sudbury, Mass.; B.S. University of Connecticut, 1976; M.P.H. Columbia University, 1981. Environmental Health Sciences.
Generation and Characterization of Free Radicals Produced in Mouse Keratinocytes Following Exposure to Organic Hydroperoxide Tumor Promoters.

Susan Louise Thompson-Gorman, of Baltimore, Md.; B.A. Kenyon College, 1983. Environmental Health Sciences.
The Control of Breathing During High Frequency Ventilation.

Monica Doerr Traystman, of Baltimore, Md.; B.A. St. Andrews Presbyterian College, 1966; M.S. The Johns Hopkins University, 1982. Immunology and Infectious Diseases.
Genetic Regulation of CVB3-Induced Autoimmune Myocarditis.

Claudia Ruth Turner, of Baltimore, Md.; B.S. Bates College, 1976; M.S. Pennsylvania State University, 1983. Environmental Health Sciences.
Mast Cell Function and the Late Asthmatic Response of the Canine Peripheral Lung.

Benjamin Ceribo Vitasa, of Manila, Philippines; B.S. University of the Philippines, 1965; M.D., 1972; M.P.H. The Johns Hopkins University, 1985. Environmental Health Sciences.
Association of Nonmelanoma Skin Cancer and Actinic Keratosis with Cumulative Ultraviolet Exposure and Persons Holding Maryland Licenses.

David Vlahov, of Baltimore, Md.; B.A. Earlham College, 1974; B.S.N. University of Maryland, 1977; M.S. 1980. Epidemiology.
Epidemiology of HIV Infection among Imprisoned Drug Users.

Peter J. Ward, of Baltimore, Md.; B.S. University of Oregon, 1973. Immunology and Infectious Diseases.
Transcriptional Activity of Human Papillomavirus Type 6 in Papillomata.

DOCTORS OF PHILOSOPHY

in The School of Advanced International Studies

Charles Albert Appleby, Jr., of McLean, Va.; B.A. Dartmouth College, 1973; M.A. The Johns Hopkins University, 1981.
Eisenhower and Arms Control, 1955-1961: A Balance of Risks

Cynthia Joan Arnson, of Washington, D.C.; B.A. Wesleyan University, 1976; M.A. The Johns Hopkins University, 1985.
Congress and Central America: The Search for Consensus.

Paul H. Chan, of Hong Kong; B.A. State University of New York at Albany, 1975; M.A. The Johns Hopkins University, 1978.
From Colony to Neighbor: Relations between Japan and South Korea in 1945-1985.

Mary-Jane Deeb, of Beirut, of Lebanon; B.A. American University of Cairo, 1967; M.A., 1972.
Libya's Foreign Policy in North Africa.

Mark J. Ellyne, of Brookline, Mass.; B.Sc. Cornell University, 1971; M.Sc. University of London, 1972; D.I.C., 1972; M.Sc., 1976.
Economic Relations and Alliance Cohesion in Eastern Europe: A Historical Quantitative Study: 1950-1983.

Orit Frenkel, of Washington, D.C.; B.A. University of Maryland, 1979; M.I.P.P. University of Michigan, 1981.
Constraints and Compromises: Trade Policy in a Democracy: The Case of the U.S.-Israel Free Trade Area.

James Hall Gardner, of Wilmington Del.; B.A. Colgate University, 1976; M.A. The Johns Hopkins University, 1982.
Alternatives to Global War: Geohistory, Strategic Leveraging and a Critique of the Pre-World War One Analogy.

Sidi Cherno Jammeh, of The Gambia; B.S. Georgetown University, 1977; M.A. The Johns Hopkins University, 1980.
State Intervention in Agricultural Pricing and Marketing in Senegal: The Politics of Budgetary Reallocation.

Dorothy McCormick, of Washington, D.C.; B.A. Trinity College, 1964; M.B.A. University of Pennsylvania, 1966; M.A. The Johns Hopkins University, 1984.
Small Enterprise in Nairobi: Golden Opportunity or Dead End?

Thomas John Row, of Fairfax, Va.; B.A. The Johns Hopkins University, 1978; M.A., 1980.
Economic Nationalism in Italy: The Ansaldo Company, 1882-1921.

Masaru Tamamoto, of Yokoama, Japan; B.A. Brown University, 1980; M.A. The Johns Hopkins University, 1983.
Unwanted Peace: Japanese Intellectual Thought in American Occupied Japan, 1948-1952.

John Michael Tidd, of Alhambra, Calif.; B.A. Occidental College, 1973; M.A. The Johns Hopkins University, 1975.
The Development of Soviet Interest in East-West Energy Cooperation in Europe 1971-1981.

Young-Kwan Yoon, of Seoul, Korea; B.A. Seoul National University, 1975; M.A., 1977; M.A. The Johns Hopkins University, 1983.
Political Economy of Foreign Investment and Productivity: A Historical Observation and Industrial Case Studies.

DOCTORS OF MEDICINE

in The School of Medicine

Michelle Denise Abram, of Jackson, Miss.; B.S. Tougaloo College, 1984.

Charles Leon Anderson, Jr., of Williamsville, N.Y.; B.A. Princeton University, 1983; M.P.H. The Johns Hopkins University, 1987.

Jennifer Kay Aylestock, of Sterling, Va.; B.A. University of Virginia, 1984.

Mohit Krishan Bhatnagar, of Gaithersburg, Md.; B.A. The Johns Hopkins University, 1984.

Nathan Jon Blum, of Philadelphia, Pa.; B.A. Bowdoin College, 1984.

Thomas Wiley Bochow, of Tyler, Texas; B.A. Baylor University, 1983.

Marshall Jones Bouldin, IV, of Clarksdale, Miss.; B.A. University of Mississippi, 1982.

George Riddle Bradbury, III, of Kirkwood, Mo.; B.A. University of Chicago, 1984.

Amy Rose Brooks, of Bonita Springs, Fla.; B.A. Cornell University, 1984.

Steven Elliot Brooks, of Woodcliff Lake, N.J.; B.A. Dartmouth College, 1984.

Arthur Louis Burnett, II, of Washington, D.C.; B.A. Princeton University, 1984.

Barbara Ann Centeno, of Miami, Fla.; B.A. University of Miami, 1984.

Bruce H. Chamberlain, of Scottsdale, Ariz., B.S. Brigham Young University, 1984.

Lauren Chang, of Bethesda, Md.; B.A. Wellesley College, 1984.

Angela Man-Wei Cheung, of Kowloon, Hong Kong; B.A. Bryn Mawr College, 1984.

Paul Raymond Coffeen, of Leawood, Kan.; B.S.E.E. University of Kansas, 1983.

Helen Louise Collins, of Arcadia, Calif.; B.A. Bryn Mawr College, 1984.

Thomas Byrne Connor, Jr., of Baltimore, Md.; B.S. Haverford College, 1981.

Jean Marie Connors, of Cape Elizabeth, Me.; B.A. Wellesley College, 1984.

Lawrence Lee Creswell, of Portsmouth, R.I.; B.A. University of Pennsylvania, 1984.

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Donald Charles Manning, Jr., of Baltimore, Md.; B.S. McGill University, 1979; Ph.D. The Johns Hopkins Univresity, 1984.

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Robert W. Mueller, of Jackson, Mo.; B.A. Westminster College, 1984.

Brian David Mulliken, of Elgin, Ill.; B.S. University of Illinois at Urbana-Champaign, 1984.

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Jeffrey Scott Nye, of Morton Grove, Ill.; B.A. Harvard University, 1980; M.A., 1980.

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George Arthur Paletta, Jr., of Bedford, N.Y.; B.A. College of the Holy Cross, 1984.

Juliann Marie Paolicchi, of Big Rapids, Mich.; B.A. Harvard University, 1981.

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Reed David Riley, of Baltimore, Md.; B.A. Duke University, 1984.

Philip Jacob Rosenfeld, of Merion, Pa.; B.A. Case Western Reserve University, 1979.

Valerie Howarth Ross, of Greene, N.Y.; B.A. Ithaca College, 1984.

Eileen Joy Schlaffer, of Potomac, Md.; B.S. University of Maryland, 1984.

Thomas Michael Schott, of Charleston, Mo.; B.A. University of Missouri, 1984.

Larry Brian Scott, of Cincinnati, Ohio; B.A. De Pauw University, 1984.

Michael Grant Sension, of Chenoa, Ill.; B.S. Wheaton College, 1983.

Alfred Serna, of Cleveland, Ohio; B.S. John Carroll University, 1984.

Luke Edward Sewall, of Brookfield, Ill.; B.S. University of Illinois at Urbana-Champaign, 1984.

Sanjay Shirish Shah, of Pittsburgh, Pa.; B.S.E. University of Pittsburgh, 1984.

Catherine Anne Sheils, of Langhorne, Pa.; B.S. Villanova University, 1984.

James Louis Sherley, of Memphis, Tenn.; B.A. Harvard University, 1980.

Evan Spencer Siegelman, of Randallstown, Md.; B.A. Franklin and Marshall College, 1984.

Jeffrey Dean Simmons, of DeKalb, Ill.; B.A. Augustana College, 1984.

Kristin Anne Skinner, of Chicago, Ill.; B.S. University of Rochester, 1984.

Gregory Alan Sliman, of Biloxi, Miss.; B.S. Millsaps College, 1984.

Kristen Elsa Smith, of Jamestown, N.D.; B.A. Jamestown College, 1984.

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Karen Leslie Southwick, of Boulder, Colo.; B.A. Colorado College, 1983.

Michael Glenn Stewart, of Chattanooga, Tenn.; B.E. Vanderbilt University, 1984.

Anne Marie Stoline, of Kalamazoo, Mich.; B.A. Kalamazoo College, 1983.

Michael Blake Streiff, of Gainesville, Fla.; B.S. Washington and Lee University, 1983.

Yolángel Hernández Suárez, of New York, N.Y.; B.A. Swarthmore College, 1984.

Brian Scott Sucharetza, of Avon Lake, Ohio; B.A. Case Western Reserve University, 1984.

Kimberly Casey Suppes, of Knoxville, Tenn.; B.S. Virginia Polytechnic Institute and State University, 1984.

Allen John Taylor, of Governor's Island, N.Y.; B.S. College of William and Mary, 1984.

Cheryl Marie Taylor, of Silver Spring, M.D.; B.S.E.E. Howard University, 1983.

William Herbert Thompson, III, of Concrete, Wash.; B.S. University of Washington, 1984.

Michael Edward Torchia, of Toledo, Ohio; B.S. University of Notre Dame, 1984.

Jose Antonio Torres, of Cayey, Puerto Rico; B.S. Cornell University, 1983; M.S. State University of New York at Buffalo, 1984.

Todd Michael Tuttle, of Norflok, Neb.; B.S. Creighton University, 1984.

Arthur William Wallace, of Orinda, Calif.; B.S. Yale University, 1981.

Philip Cargill Watt, of Thomasville, Ga.; B.A. University of the South, 1983.

Elizabeth Anne Wood, of Belchertown, Mass.; B.A. Brown University, 1984.

Vincent Paul Wroblewski, of Lutherville, Md.; B.S. Loyola College, 1983.

Kai Huei Yang, of Storrs, Conn.; B.A. Smith College, 1984.

William Todd Zempsky, of Woodbridge, Conn.; B.A. Cornell University, 1984.

DOCTORS OF PHILOSOPHY

in The School of Medicine

Marisa Susan Bartolomei, of Bowie, Md.; B.S. University of Maryland, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics.

Genetic Analysis of the Mouse RNA Polymerase II Largest Subunit.

Donna Mia Benko, of Timonium, Md.; B.S. Pennsylvania, State University, 1981. Pharmacology and Molecular Sciences.

Identification and Characterization of the Virion Glycoproteins of Human and Simian Cytomegaloviruses.

Gretchen Alethea Bradow, of Baltimore, Md.; B.A. Bryn Mawr College, 1981. Pharmacology and Molecular Sciences.

Intramolecular Rearrangement of Acyl-linked Glucuronides.

Jeffrey M. Chernak, of Baltimore, Md.; B.A. Cornell University, 1980. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics.

Expression and Regulation of Two Proteins Encoded by the Bacterial Transposable Element IS5.

Robert John D'Amato, of Lancaster, Pa.; B.A. The Johns Hopkins University, 1983. Neuroscience.

Parkinson's Disease: Studies on the Pathology of the Disease and the Mechanism of Action of the Neurotoxin MPTP.

Margarete Mathilde Sophie Heck, of Catskill, N.Y.; B.A. State University of New York College at Plattsburgh, 1981. Biochemistry, Cellular and Molecular Biology Training Program-Cell Biology and Anatomy.

DNA Topoisomerase II in Chromosome Structure and Cell Proliferation.

Gordon Duane Holt, of St. Louis, Mo.; B.A. Washington University in St. Louis, 1982. Biochemistry Cellular and Molecular Training Program-Biological Chemistry.

Cytoplasmic and Nucleoplasmic Glycosylation.

Kenneth Wayne Kinzler, of Philadelphia, Pa.; B.S. Philadelphia College of Pharmacy and Science, 1983. Pharmacology and Molecular Sciences.

Gene Amplification in Human Cancer.

Peter Klein, of Williamsville, N.Y.; B.A. Harvard University, 1980. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry.

Characterization of a Eukaryotic Chemoattractant Recepor, the cAMP Receptor of Dictyostelium Discoideum.

Samuel Arthur Lewis, of Baltimore, Md.; B.S. Univeristy of California, Davis, 1981. Biochemistry, Cellular and Molecular Biology Training Program-Pharmacology and Molecular Sciences.

Schistosoma mansoni: *Characterization of Proteins and Immunogens Released by Adult Parasites.*

Joachim John Li, of Chicago, Ill.; B.S. University of Chicago, 1980; M.S., 1980. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics.

Development of a Soluble Cell-Free System for the Replication of SV40 DNA.

David Robinson Lynch, of Houston, Texas; B.S. Yale University, 1981. Neuroscience.

Enkephalin Convertase: Characterization and Localization with [^3H]-Guanidinoethylmercaptosuccinic Acid.

Jeffrey Scott Nye, of Highland Park, Ill.; B.A. Harvard University, 1980; M.A., 1981. Pharmacology and Molecular Sciences.

The High Affinity Cannabinoid Binding Site in Brain: A Possible Marijuana Receptor.

Masako Okajima of Silver Spring, Md.; B.S. University of Maryland, 1978; M.S. George Washington University, 1981. Molecular Biology and Genetics-Immunology.

Lymphocyte Activation via Receptor Cross-Linkage by Macromolecules: Molecular Properties Influencing Activation and Inhibition by Haptenated Polymers.

Tracy Simpson Olson, of New Carrollton, Md.; B.S. University of Delaware, 1982; B.A., 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry.

Acquisition of Insulin Binding Function by the Insulin Proreceptor in 3T3-L1 Adipocytes.

Philip Jacob Rosenfeld, of Baltimore, Md.; B.A. Case Western Reserve University, 1979. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics.

The Role of Cellular Sequence-Specific DNA Binding Proteins in the Replication of Adenovirus DNA.

Leslie Nadine Russek, of Storrs, Conn.; B.A. Harvard University, 1983. Biomedical Engineering.

The Effects of High Potassium on Calcium Fluxes in Rabbit Aorta.

James Louis Sherley, of Memphis, Tenn.; B.A. Harvard University, 1980. Biochemistry, Cellular and Molecular Biology Training Program-Molecular Biology and Genetics.

Towards Understanding the Control of Chromosomal DNA Replication: Studies on the Human Cytosolic Thymidine Kinase.

Pamela Beth Sklar, of Baltimore, Md.; B.A. St. John's College, 1981; M.D. The Johns Hopkins University, 1985. Neuroscience.

Signal Transduction in the Olfactory System. The Odorant-Stimulated Adenylate Cyclase and Odorant Binding Protein.

Eric George Suchanek, of Fairfield, Ohio; B.A. Washington University, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biophysics.

Designing Disulfide Bonds in Proteins of Known Structure.

Timothy Daniel Tom, of San Diego, Calif.; B.A. University of California, San Diego, 1980. Pharmacology and Molecular Sciences.

Cloning, Expression and Characterization of cDNAs Encoding Immunogenic and Surface Proteins of Schistosoma mansoni.

John Gerard Tower, of Baltimore, Md.; B.A. Alfred University, 1982. Biochemistry, Cellular and Molecular Biology Training Program-Biological Chemistry.

Regulation of Mouse RNA Polymerase I Transcription.

John Alan Wagner, of Collegeville, Pa.; B.A. The Johns Hopkins University, 1983. Neuroscience.

Characterization of [^{125}I] Omega-Conotoxin Binding to Brain N Calcium Channels and (-)[^{3}H] Desmethoxyverapamil Binding to Novel Calcium Channels in Osteoblast-like Osteosarcoma Cells.

Arthur William Wallace, of Orinda, Calif.; B.S. Yale College, 1981. Biomedical Engineering.

Interaction of Pulmonary Artery, Pulmonary Vein, and Carotid Sinus Baroreceptors in the Open Loop Steady State Control of Systemic Vascular Resistance in the Dog.

Daryl Eugene Warder, of Kansas City, Mo.; B.S. Yale University, 1981. Pharmacology and Molecular Sciences.

Differentiation-Related Antigens of the F9 Teratocarcinoma Cell.

Fong-sen Wu, of Taiwan; B.S. National Taiwan University, 1976; M.S., 1980. Physiology.

Effects of Insulin on Electrical Activity of Skeletal Muscle.

DOCTORS OF PHILOSOPHY

in The G.W.C. Whiting School of Engineering

Tasos Christoforos Christofides, of Nicosia, Cyprus; M.S.E. The Johns Hopkins University, 1985. Mathematical Sciences.

Maximal Probability Inequalities for Multidimensionally Indexed Semimartingales and Convergence Theory of U-Statistics.

Graham Ross Cook, of Tullamarine, Victoria, Australia; B.E. Footscray Institute of Technology, 1977; M.Eng.Sc. University of Melbourne, 1979. Civil Engineering.

The Lighthill Correction to the Morison Equation.

Silvio Peter Eberhardt, of Bethlehem, Pa.; B.S. Lehigh University, 1980; M.S.E. The Johns Hopkins University, 1982. Computer Science.

Vibrotactile Presentation of Voice Fundamental Frequency to Aid Lipreading.

Kimberly Ann Gray, of Indianapolis, Ind.; B.A. Northwestern University, 1978. Geography and Environmental Engineering.

The Preparation, Characterization and Use of Inorganic Iron (III) Polymers for Coagulation In Water Treatment.

Kevin Patrick Hallinan, of Culver, Ind.; B.S. University of Akron, 1982; M.S. Purdue University, 1983. Mechanical Engineering.

Effects of Buoyancy on Heat Transfer in Vertical, Uniformly Heated Channels.

George Dimitrios Ikonomou, of Thessaloniki, Greece; B.S. University of Santa Clara, 1979; M.S. Oregon State University, 1982. Chemical Engineering.

Equation of State Description of Thermodynamic Properties for Hydrogen Bonding Systems.

Selâhattin Kayalar, of Altindağ-Izmir, Turkey; B.S.E.E. Bogazici University, Istanbul, 1977; M.S.E.E. Purdue University, 1981. Electrical Engineering and Computer Science.

Oblique and Alternating Projections: Formulas, Algorithms, and Error Bounds.

Dong Hyuk Kim, of Seoul, Korea; B.S.E. Seoul National University, 1976; M.S.M.E. New Jersey Institute of Technology, 1984. Mechanical Engineering.

Computational Analysis of Pressure Wave Propagation in a Bubbly Liquid.

Yutai Thomas Koh, of Taipei, Taiwan, China; B.S. National Taiwan University, 1980; M.S.E. The Johns Hopkins University, 1984. Electrical and Computer Engineering.

Interleaved and Concatenated coding for the Turbulent Atmospheric Direct Detection Optical Communication Channel.

George Mathias Kondolf, of Rumson, N.J.; B.A. Princeton University, 1978. Geography and Environmental Engineering.

Salmonid Spawning Gravels: A Geomorphic Perspective on Their Size Distribution, Modification by Spawning Fish, and Criteria for Gravel Quality.

Elliot Ralph Lieberman, of Baltimore, Md.; B.A. State University of New York at Binghamton, 1966; M.A. University of Wisconsin, 1967. Geography and Environmental Engineering.

Multi-Objective Programming in the U.S.S.R., A Methodological Assessment of the Development and State of Soviet Research.

Alan Keith McClellan, of Seascale, Cumbria, England; M.S. University of Notre Dame, 1984. Chemical Engineering.

The High Pressure Phase Equilibrium of the Polystyrene-Toluene-Ethane System.

John Nelson Murray, of Timonium, Md.; B.A. Northwestern University, 1957. Materials Science and Engineering.

A Study of the Corrosion of Polyethylene Coated Pipeline Steel in Soils using Electrochemical Impedance Spectroscopy (EIS).

Ronald Nicholas Occhiogrosso, of Flushing, N.Y.; B.E. Manhattan College, 1983; M.S. University of Notre Dame, 1985. Chemical Engineering.

Free-Radical Oxidation of Cumene in Supercritical Fluid Media.

Louis Joseph Podrazik, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1976; M.S.E., 1978. Electrical and Computer Engineering.

Parallel Implementations of Gradient Based Iterative Algorithms for Optimal Control Problems.

Mark Andrew Richter, of Baltimore, Md.; B.M.E. University of Delaware, 1983; M.A.S., 1984. Materials Science and Engineering.

Laser Speckle Photography and Decorrelation Techniques in Elastic-Plastic Fracture Studies.

Craig Norman Schubert, of Baltimore, Md.; B.S. University of California, San Diego, 1981. Chemical Engineering.

Experimental Studies of Selective Acid Gas Removal: Absorption of Hydrogen Sulfide and Carbon Dioxide into Aqueous Methyldiethanolamine using Packed Columns.

Paul Robert Schuster, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1981. Materials Science and Engineering.

Holographic Velocimetry as a Flow Diagnostic Tool in the Evaluation of Prosthetic Heart Valves.

Stuart Stephen Schwartz, of Ozone Park, N.Y. Geography and Environmental Engineering.

A Stochastic Multiobjective Analysis of Real-Time Flood Control Operation in a Multipurpose Reservoir.

Robert Ingemar Strandh, of Malmö, Sweden ;M.S. Linköping Technical University, Sweden, 1979. Computer Science.

Compiling Equational Programs into Efficient Machine Code.

Subhash Suri, of Bareilly, India; B.E. University of Roorkee, India, 1981; M.S.E. The Johns Hopkins University, 1985. Computer Science.

Minimum Link Paths in Polygons and Related Applications.

Joseph Jonathan Suter, of Columbia, Md.; M.S. Michigan State University, 1980; M.S. University of Maryland, 1982. Materials Science and Engineering.

Acoustic Loss and Frequency Stability Studies of Gamma and Proton Irradiated Alpha Quartz Resonators.

Edhi Sutjahjo, of Surabaya, Indonesia; Diploma, Institute of Technology, Bandung, Indonesia, 1979; M.S.E. The Johns Hopkins University, 1986. Civil Engineering.

Shell Finite Element Kinematics for Improved Bending, Membrane and Transverse Shear Behavior.

Shen-Sheng Ting, of Taipei, Taiwan; B.S. National Chiao Tung University, 1972; M.S. Georgia Institute of Technology, 1975. Mathematical Sciences.

Obnoxious Facility Location Problems on Tree Networks.

John Eric Tobiason, of Baltimore, Md.; B.S. University of New Hampshire, 1976; M.S. University of North Carolina, 1979. Geography and Environmental Engineering.

Physicochemical Aspects of Particle Deposition in Porous Media.

Jianliang Wang, of Beijing, China; B.S. Beijing Institute of Technology, 1982; M.S.E. The Johns Hopkins University, 1985. Electrical and Computer Engineering.

On Linearization Families of Nonlinear Systems and Nonlinear Control Laws.

Yu-lin Wang, of Taipei, Taiwan; B.S.E. National Taiwan University, 1980; M.S.E. The Johns Hopkins University, 1984. Electrical and Computer Engineering.

Study of the Passively Mode-Locked Ar^+—Dye Laser System.

Chonghua Yao, of Shanghai, China; M.S. Beijing Normal University, 1981. Geography and Environmental Engineering.

The Preparation of Polymeric Aluminum Chloride (PACl) and its Application in Water Treatment.

DOCTORS OF PHILOSOPHY

in The School of Arts and Sciences

Shigeru Akiyama, of Tokyo, Japan; B.E. University of Electro-Communications, 1973; M.Econ. Hitotsubashi University, 1976. Political Economy.

A Model of Dynamic Supply Responses in the Long Run and in the Short Run: A Case of Copper.

David John Anastasio, of Camp Hill, Pa.; B.A. Franklin and Marshall College, 1980; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.

Thrusting, Halotectonics and Sedimentation in the External Sierra, Southern Pyrenees, Spain.

Gina Arents, of Upperco, Md.; B.A. Goucher College, 1975. Biophysics.

Structure and Refinement at 1.5A Resolution of a Monomeric Hemoglobin from Glycera dibranchiata.

Sven Arntzen, of Oslo, Norway; M.A. The Johns Hopkins University, 1980. Philosophy.

Kant's Theory of Juridical Duties and Their Legislation: an Examination of the Relationship of Law and Morality According to Metaphysik der Sitten.

Salvatore Joseph Arrigo, of Washington, D.C.; B.A. University of Virginia, 1982. Biology.

Cis-acting regulatory elements within the gag *genes of avian retroviruses.*

Tommaso Astarita, of Naples, Italy; B.A. Universita degli Studi di Napoli, 1983; M.A. The Johns Hopkins University, 1985. History.

The Caracciolo di Brienza in Spanish Naples: A Case Study in the Continuity of Feudal Power, 1550-1720.

Brian Henry Balogh, of Baltimore, Md.; B.A. Harvard University, 1975; M.A. The Johns Hopkins University, 1984. History.

Trouble in Paradise: Institutionalized Expertise in the Development of Nuclear Power, 1945-1975.

Mary Louise Barrett, of Baltimore, Md.; B.S. Stephen F. Austin State University, 1978; M.S., 1980. Earth and Planetary Sciences.

The Dolomitization and Diagenesis of the Jurassic Smackover Formation, Southern Alabama.

Alan Hendrie Beggs, III, of Baltimore, Md.; B.A. Cornell University, 1982. Biology.

Regulation of JC virus T-antigen expression and analysis of oncogene function using serum-free medium.

Debra Anne Belt, of Decatur, Ala.; B.A. Agnes Scott College, 1975; M.A. The Johns Hopkins University, 1980. English.

The Poetics of Hostile Response: Writers and Critical Readers in Sixteenth-Century England.

Russell Dean Benjamin, of Greenfield, Minn.; B.A. University of Minnesota, 1979; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

A Vacuum Ultraviolet Study of the Alcator C Tokamak Plasma using A High Resolution, One Dimensional Photon Counting Detector.

Paul Scott Blank, of Baltimore, Md. Biophysics.

A Quasi-elastic Light Scattering Study of Axonal Transport.

Susan Willey Blood, of Bellingham, Wash.; B.A. Reed College, 1979. French.

The Ethical Imperative in Bandelaire's Aesthetics.

John David Brantley, of San Antonio, Texas; B.A. University of Miami, 1980. Biophysics.

Labeling a Specific Sequence of Chromatin for Electron Microscopy.

Gabriella Amalia Bucci, of Washington, D.C.; B.A. The Johns Hopkins University, 1982; M.A., 1985. Political Economy.

Urban-Rural Income Differentials, Migration, and Development: A Case Study of India.

Alicia Jean Buckler-White, of Columbia, Md.; B.A. Hiram College, 1972. Biology.

The Role of the Nuclear Matrix in Polyoma Viral DNA Replication.

Agustine Joseph Caffrey, III, of Idaho Falls, Idaho; B.A. College of the Holy Cross, 1973; M.A. The Johns Hopkins University, 1977. Physics and Astronomy.

Aspects of Pion and Muon Capture.

Karen Ann Canella, of Delta, Pa.; B.S. Drexel University, 1980. Chemistry.

The Formation of 0-Lithio Lithium Phenoxide and The Total Synthesis of Juncunol: a 9, 10-Dihydrophenanthrene Natural Product.

Kristen Kyle Carlberg, of Columbia, Md.; B.A. University of Washington, 1977. Biology.

Localization and biological characterization of transcriptional regulatory elements within the gag genes of avian sarcoma viruses.

Jeffrey Alan Charles, of Baltimore, Md.; M.A. The Johns Hopkins University, 1982. History.

Serivce Clubs in Twentieth Century America.

Mair Elisa Annabelle Churchill, of Radford, Va.; B.A. Swarthmore College, 1981. Chemistry.

Hydroxyl Radical Cleavage of DNA: Structural Studies on the TFIIIA-5S Gene Complex and on Models for the Holiday Recombination Intermediate.

Frederick William Conrad, of University City, Mo.; B.A. Washington University in St. Louis, 1982; M.A. The Johns Hopkins University, 1984. History.

A Preservative Against Tyranny: the Political Theology of Sir Thomas Elyot.

Joseph Paul Cousins, of Round Lake, N.Y.; B.S. Le Moyne College, 1974; M.A. Fordham University, 1978; M.A. The Johns Hopkins University, 1983. Chemistry.

Nuclear Magnetic Resonance Studies of Diazotate Mediated Benzyl Carbonium Ion Reactions with Model Peptides and Alpha-Chymotrypsin.

Clifton Charles Crais, of Washington, D.C.; M.A. The Johns Hopkins University, 1984. History.

The Making of the Colonial Order in the Eastern Cape: White Supremacy and African Resistance in Pre-Industrial South Africa, 1770-1853.

Thomas Anthony Dahl, of Syracuse, N.Y. Biology.

Pure Singlet Oxygen: Cytotoxicity Without Mutagenicity for Bacteria and Some Biological Defense Mechanisms.

Paul Talbot Decker, of Jacksonville, Ill. Political Economy.

Job Characteristics Wage Variation and Labor Supply: Theory and Estimation.

Julie Ann De Loia, of Ellwood City, Pa.; B.S. Westminster College, 1981. Biology.

HBV Gene Expression in Transgenic Mice.

Peter Eugene Digeser, of Delmar, NY.; B.A. State University at Buffalo, 1980; M.Sc. University of London, 1981; M.A. The Johns Hopkins University, 1984. Political Science.

The Conversational and the Confrontational in Democratic Theory.

Joseph Leo Domagalski, of Hammond, Ind.; B.A. Indiana University, 1978; M.S. 1980. Earth and Planetary Sciences.

Trace Metal and Organic Geochemistry of Closed Basin Lakes.

Beth Anne Dombroski, of Reading, Pa.; B.A. Shippensburg University, 1982. Chemistry.

Development and Application of a Method Employing Hydroxyl Radical Chemistry to Examine Local DNA Structure and Protein-DNA Interactions.

Christopher Dreisbach, of Baltimore, Md.; B.A. Hamline University, 1979; M.A. The Johns Hopkins University, 1981. Philosophy.

The Morality of Art: Collingwood's View.

Sue Wakeman Farquhar, of Annapolis, Md.; B.A. Sweet Briar College, 1963. French.

Doubt, Imagination and the Self-Portrait in Montaigne's Essais.

Lydia Magalhaes Garner, of Edgewater, Md.; B.A. University of Texas at Arlington, 1979; M.A. The Johns Hopkins University, 1982. History.

In Pursuit of Order: A Study in Brazilian Centralization.

Michelle Frances Gaudette, of St. Louis, Mo. Biology.

Chromosomal DNA Replication Xenopus laevis Embryos.

Jay Michael Gillen, of Ottowa, Ontario, Canada; B.A. Yale University, 1981; M.A. The Johns Hopkins University, 1986. Humanities.

Rhetorical Invention in the Poetry of Robert Browning.

Jane A. Gilotti, of Bethlehem, Pa.; B.A. University of Maine at Orono, 1978; M.A. The Johns Hopkins University, 1984. Earth and Planetary Sciences.

The Role of Ductile Deformation in the Emplacement of the Sarv Thrust Sheet, Swedish Caledonides.

Robert Kent Goldhammer, of Winchester, Mass.; M.S. University of Oklahoma, 1982. Earth and Planetary Sciences.

Platform Carbonate Cycles, Middle Triassic, Dolmites, Northern Italy.

Bjorn Gunnarsson, of Irvington, N.Y.; B.S. University of Iceland, 1980. Earth and Planetary Sciences.

Petrology and Petrogenesis of Silicic and Intermediate Lavas on a Propogating Oceanic Rift: Torfajokull and Hekla Central Volcanoes South-Central Iceland.

Myun Ki Han, of Lawndale, Calif.; B.A. University of California, San Diego, 1982. Biology.

Fluorescence Studies on Enzyme I of the PTS and on Thioredoxin.

Darryl Glenn Hart, of Levittown, Pa.; B.A. Temple University, 1979; M.A.R. Westminster Theological Seminary, 1981; M.A. The Johns Hopkins University, 1985. History.

'Doctor Fundamentalis': An Intellectual Biography of J. Gresham Machen, 1881-1938.

Catherine Healey, of Jersey City, N.J.: M.A. The Johns Hopkins University, 1980. History.

Ennobled Lives: The Phelypeaux at Pontchartrain, 1609-1727.

Deborah Ann Heath, of Minneapolis, Minn.; B.A. Reed College, 1975; M.A. University of Minnesota, 1978. Anthropology.

The Politics of Signifying Practice in Kaolack, Senegal: Hegemony and the Dialectic of Autonomy and Domination.

Philip Stephen Hicks, of St. Petersburg, Fla.; M.A. The Johns Hopkins University, 1985. History.

Historical Culture from Clarendon to Hume: the Fortunes of Classic British History, 1671-1757.

Nancy Joan Hirschmann, of Philadelphia, Pa.; B.A. Smith College, 1978; M.A. The Johns Hopkins University, 1982. Political Science.

Political Obligation and Feminist Theory.

Eugene Saul Ilton, of Irvington, N.Y.; M.A. The Johns Hopkins University, 1987. Earth and Planetary Sciences.

Base Metal Exchange Between Rock-forming Silicates, Oxides, and Hydrothermal/Metamorphic Fluids.

Shanyu Ji, of Shanghai, China; B.S. East China Normal University, 1982; M.A. The Johns Hopkins University, 1986. Mathematics.

Uniqueness Problem, Image of Hypersurfaces and Nevanlinna Theorems in Push-forward Version.

Virgil Evans Johnson, of Gaithersburg, Md. Earth and Planetary Sciences.

Periodic vortex ring cavity formation in an excited submerged jet.

Frank James Kearney, of Tampa, Fla.; B.A. Loyola University, 1979; M.A. The Johns Hopkins University, 1983. Psychology.

Persons With Mental Health Retardation Leaving Mental Health Institutions: An Empirical Follow-up Study After Five Years in the Community.

Ashfaque Hasan Khan, of Karachi, Pakistan; M.A. McMaster University, Canada, 1978; M.A. The Johns Hopkins University, 1986. Political Economy.

A Macroeconometric Study of the Growth Prospects of Pakistan's Economy.

Hyun Kwang Kim, of Seoul, Korea; B.S. Seoul National University, 1979; M.S., 1981. Mathematics.

A Conjecture of S. Chowla and related topics in Analytic Number Theory.

Archibald Douglas Kincaid, of Miami, Fla.; B.A. Dartmouth University, 1973; M.A. University of North Carolina, 1979. Sociology.

Agrarian Development, Peasant Mobilization, and Social Change in Central America: A Comparative Study.

Mark Lawrence Kornbluh, of University City, Mo.; M.A. The Johns Hopkins University, 1979. History.

From Participatory to Administrative Politics: A Social History of American Political Behavior, 1880-1918.

Kathryn Ann Lee, of Spokane, Wash.; B.A. Wake Forest University, 1978; M.A. The Johns Hopkins University, 1982. Political Science.

Law in the Crucible of Change: Women's Rights and State Supreme Court Policymaking, 1865-1920.

Stephen Connor Lerch, of Silver Spring, Md.; B.A. Indiana University, 1979; M.A. The Johns Hopkins University, 1981. Political Economy.

A Microeconometric Investigation of Social Security and Saving Behavior in the Life Cycle Hypothesis.

Cornelius Hyman Lettinga, of St. Paul, Minn.; B.A. Calvin College, 1976; M.A. The Johns Hopkins University, 1979. History.

Covenant Theology and the Transformation of Anglicanism.

Laura Ellen Levine, of New York, N.Y.; B.A. Bryn Mawr College, 1976; M.A. The Johns Hopkins University, 1983. English.

Men in Women's Clothing: Anti-Theatricality and Effeminization from 1579 to 1642.

Dominic Song Ching Li, of Toronto, Ontario, Canada; B.C. University of Toronto, 1978. Political Economy.

A Study of Neoclassical Macroeconomic Models.

Eric T. Lincke, of Marquette, Mich.; B.S. Northern Michigan University, 1980; M.A. The Johns Hopkins University, 1983. Physics and Astronomy.

A Search for the Oscillation of Muon Neutrinos to Electron Neutrinos.

Ira Paul Lowenthal, of Port-au-Prince, Haiti; B.A. Yale University, 1972; M.A. The Johns Hopkins University, 1984. Anthropology.

'Marriage is 20, Children are 21:' The Cultural Construction of Conjugality and the Family in Rural Haiti.

Peter Marshall Lukehart, of Bethlehem, Pa.; B.A. Eckerd College, 1977; M.A. Temple University, 1980. History of Art.

Contending Ideals: The Nobility of G. B. Paggi and the Nobility of Painting.

John Kent Lydecker, of Oak Park, Ill.; B.A. Rice University, 1971; M.A. Cornell University, 1975. History of Art.

The Domestic Setting of the Arts in Renaissance Florence.

John Douglas MacIsaac, of Mt. Vernon, N.Y.; B.A. Fordham University, 1966. Classics.

The Location of the Republican Mint of Rome and the Topography of the Arx of the Capitoline.

Shi-Shan Mao, of Taipei, Taiwan; B.S. National Tsing Hua University, 1978. Chemistry.

Biosynthetic Studies on Clavulanic Acid: Its Biopathway and Stereo-chemical Course.

Richard Dean McCullough, of Mesquite, Texas; B.S. University of Texas at Dallas, 1982; M.A. The Johns Hopkins University, 1987. Chemistry.

Synthesis and Development of Heterocyclic Chalcogen pi-Donor Molecules as Components for Organic Metals.

Scott Neal Morschauser, of Blackwood, N.J.; B.A. Gettysburg College, 1977; M.A. The Johns Hopkins University, 1980. Near Eastern Studies.

Threat Fornulae in Ancient Egypt.

Michael David Muchow, of Salt Lake City, Utah; B.A. University of Utah, 1977; M.A. The Johns Hopkins University, 1979. Classics.

Passionate Love and Respectable Society in three Greek Novels.

Paul Andrew Mullin, of Amherst, Mass.; B.A. Carleton College, 1984; M.A. The Johns Hopkins University, 1986. Psychology.

Capacity Limitations in Visual Word Processing.

Daniel E. Nolle, of Tarkio, Mo.; B.A. University of Mis souri, 1973; M.A., 1976. Political Economy.

Industrial Organization and International Trade Performance: An Empirical Analysis of U.S. Manufacturing Industries.

William McEnery Offutt, of Bethesda, Md.; B.A. Stanford University, 1976; J.D., 1979; M.A. The Johns Hopkins University, 1983. History.

Law and Social Cohesion in a Plural Society: The Delaware Valley 1680-1710.

Yuhtaro Ohmori, of Kure-city, Hiroshima, Japan; B.A. Keio University, 1976; M.A., 1979. History.

The Artillery of Mr. Locke.

Li-Wen Pan, of Beijing, China; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

Multiphoton Above-Threshold Ionization of Atoms in Intense Laser Fields.

Jeffrey Llewellyn Price, of Richmond, Va.; B.S. College of William and Mary, 1980. Biology.

Regulation of Antifreeze Protein Messenger RNA and a Female-Specific Messenger RNA in Winter Flounder: Evidence for Temperature and Photoperiod Effects.

Michele Robinson, of London, Ontario, Canada; B.A. University of Toronto, 1978; M.Phil. University of Oxford, 1980; M.A. The Johns Hopkins University, 1982. English.

Figuring Out Women: Chaucer's Reading of the Antifeminist Tradition.

Jeffrey Adam Robl, of Bel Air, Md.; B.S. Loyola College, 1982. Chemistry.

A Total Synthesis of Natural Prostaglandin E_1 via a Versatile Prostaglandin H Analog Generated by a Novel Intramolecular Nitrone-Alkene Cycloaddition.

Neil Charles Saccamano, of Little Neck, N.Y.; B.A. State University of New York at Buffalo, 1975; M.A. The Johns Hopkins University, 1982. Humanities.

Publication, interpretation, and Neoclassicism: The Case of Swift.

Magdalena Sofia Sanchez, of New York, N.Y.; B.A. Seton Hall University, 1981; M.A. The Johns Hopkins University, 1983. History.

Dynasty, State and Diplomacy in the Spain of Philip III.

Donald Seto, of San Diego, Calif.; B.A. University of California, San Diego, 1980. Biology.

Purification and Characterization of Deoxyguanosine Triphosphate Triphosphohydrolase from E. coli *and Its Relationship to* E. coli optA1.

Alan Meyer Shapiro, of Baltimore, Md.; B.S. Cornell University, 1983; M.A. The Johns Hopkins University, 1985. Earth and Planetary Sciences.

A Similarity Model of Nonlinear Convection.

Deanna Marie Shemek, of Lincoln, Neb.; B.A. University of Nebraska, Lincoln, 1981; M.A. The Johns Hopkins University, 1985. Hispanic and Italian Studies.

Women in Ariosto's Orlando Furioso: *Cultural Debates of Gender and Genre.*

Susan Jane Siggelakis, of Fords, N.J.; B.A. Rutgers University, 1979; M.A. The Johns Hopkins University, 1984. Political Science.

'Toxic Torts': Process, Outcome and Reform.

Scott Michael Sokol, of New Windsor, N.Y.; B.A. Brandeis University, 1984; M.A. The Johns Hopkins University, 1986. Psychology.

The dissolution of arithmetic Knowledge: Implications for models of calculation.

Barbara Ann Sosnowski, of Baltimore, Md.; B.A. University of California, Berkeley, 1981. Biology.

Developmental localization of a sperm-specific protein and isolation of its gene in the nematode, Caenorhabditis elegans.

Barbette Stanley Spaeth, of Alexandria, Va.; B.A. Northwestern University, 1973; M.A., 1973. Classics.

The Goddess Ceres: A Study in Roman Religious Ideology.

Deborah Anne Spratt, of Calgary, Alberta, Canada; B.S. University of Rochester, 1976; M.A. The Johns Hopkins University, 1978. Earth and Planetary Sciences.

Finite Strain and Deformation Mechanisms in Carbonate Thrust Sheets.

Alfred Gerard Stern, of Elkton, Md.; B.S. Stockton State College, 1977; M.S. University of Maryland, 1979; M.A. The Johns Hopkins University, 1985. Chemistry.

Synthesis and Carbenic Rearrangement of Doubly Labeled Homobrexylidene.

Nancy LaClair Stults, of Sarasota, Fla.; B.S. Mary Washington College, 1980. Biology.

Binding Characteristics and Dynamics of the Hepatic Galactose/N-Acetylgalactosamine Receptor on Mammalian Hepatocytes.

Wah Keung Sze, of Hong Kong; M.A. The Johns Hopkins University, 1983. Physics and Astronmy.

On Neutrino Masses and Lepton Mixing.

Hirotaka Tamanoi, of Matsuyama-shi, Ehime, Japan; B.S. University of Tokyo, 1981; M.S., 1983. Mathematics.

An index for hyperelliptic strings.

Hiroshi Ueno, of Tokyo, Japan; B.E. Tohoku University, 1964; M.E., 1966; M.A. Massachusetts Institute of Technology, 1975; M.A. The Johns Hopkins University, 1985. Political Economy.

Two-Country Exchange Rate Dynamics with Current Account, Portfolio Balances and Sticky Prices.

Stephen Owens Vaughan, of Chapel Hill, N.C.; B.S. University of North Carolina, Chapel Hill, 1983; M.A. The Johns Hopkins University, 1985. Chemistry.

The Experimental Determination of Absolute Differeential and Integral Cross Sections for Electron Impact Excitation of the Allowed Transitions of Atomic Oxygen.

Cenalo Thomas Aquinas Vaz, of Bombay, India; M.A. The Johns Hopkins University, 1983. Physics and Astronomy.

Quantum Gravity in More Than Four Dimensions.

Jeffrey David Wallen, of Baltimore, Md.; B.A. Stanford University, 1977; M.A. Columbia University, 1980; M.A. The Johns Hopkins University, 1982. Humanities.

Aesthetic Vision and Revision: Walter Pater's Portraiture.

Elizabeth See Watson, of Philadelphia, Pa.; M.A. University of Pennsylvania, 1979. Humanities.

The Symbolicae Quaestiones of Achille Bocchi: Cultural Contexts of an Emblem Book.

David Peter Weinstein, of Farmington, Conn.; B.A. Colorado College, 1971; M.A. University of Connecticut, 1977. Political Science.

Spencer's Ethics of Equal Freedom

Karen Louise Wetmore, of Bethesda, Md.; B.A. Colby College, 1973; M.S. University of Rhode Island, 1977. Earth and Planetary Sciences.

Test Strength Mobility and the Functional Morphology of Benthic Forminifera.

Susan Marie White, of Tucson, Ariz.; M.A. The Johns Hopkins University, 1981. Humanities.

The Cinema of Max Ophuls: Marginality, Magisterial Vision and the Figure of Woman.

Elizabeth Corinne Wiggins, of Baltimore, Md.; B.S. University of North Carolina, Chapel Hill, 1980; M.A. The Johns Hopkins University, 1984. Psychology.

Procedural Innovations to Enhance Juror Comprehension in Complex Litigation.

Sherilyn Coretta Williams, of Ferguson, Mo.; B.A. Oberlin College, 1981; M.A. The Johns Hopkins University, 1984. Earth and Planetary Science.

The Shear Strength of Gypsum Single and Polycrystals and Its Implications for Petrofabric Analysis.

Corinne Wong, of Wayland, Mass.; B.A. Wellesley College, 1982. Biology.

Molecular Mechanisms of Mutation in Man: Part 1: Ring Chromosome 21 Formation; Part 2: Molecular Pathology of beta Thalassemia.

Chaloeylakana Dhanasiri Wongtrangan, of Bankok, Thailand; B.Sc. Chulalongkorn University, 1976; M.A. The Johns Hopkins University, 1980; M.A., 1983. Sociology.

Thai Elite Struggle in the 1932 Revolution.

Daniel Wurmser, of Towson, Md.; B.A. The Johns Hopkins University, 1981; M.A., 1982. Physics and Astronomy.

Compactified Vacuum in Ten Dimensions.

Gang Xiao, of Su Zhou, China; M.A. The Johns Hopkins University, 1982. Physics and Astronomy.

Magnetic and Electronic Studies of Artificial Metallic Solids: Amoerphous, Superlattice and Granular Materials.

Atsushi Yamaguchi, of Neyagawa, Osaka, Japan; B.S. Kyoto University, 1982; M.S., 1984. Mathematics.

Morava K-theory of Double Loop Spaces of Spheres.

Ji-Jeng Yang, of Taipei, Taiwan; B.S. Taiwan Provincial College of Marine and Oceanic Technology, 1976; M.A. The Johns Hopkins University, 1986. Earth and Planetary Sciences.

A Study of the Equatorial Undercurrent.

Kristin Eldyss Sorensen Zapalac, of Boston, Mass.; B.A. University of Texas at Austin, 1974; M.A., 1979; M.A. The Johns Hopkins University, 1982. History.

In His Image and Likeness: Political Iconography and Religious Change in Regensburg, 1500-1600.

Xiao-wei Zhu, of Shanghai, China; M.A. The Johns Hopkins University, 1985. Mathematics.

The Classification of spinors under $GSpin_{14}$ over finite fields and its application.

The Johns Hopkins University • Homewood Campus • Baltimore, Maryland 21218

Office of The Registrar
75 Garland Hall

July 6, 1988

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1988 Commencement Program:

1. Bachelors of Arts (Arts and Sciences)

   Add: Shivendra Chopra, of Potomac, Md.

   Delete: Nancy Armstrong
   Loren J. Fox
   Elizabeth Joan Guard
   Stephen Sanborn Nason
   Jeffrey Theodore Newell
   Laura Elise Vasquez
   Jonathan Victor Zuck

2. Bachelors of Science in Biomedical Engineering (Engineering)

   Delete: Christopher Denis Riemann

3. Bachelors of Science in Electrical Engineering (Engineering)

   Add: James Hampton Baker, of Alexandria, Va.
   Theodore Tsu-Ta Ying, of Winter Springs, Fla.

   Delete: Richard Barry Elfenbein

4. Bachelors of Science in Mathematical Sciences (Engineering)

   Add: David Paul McClure, of Washington, D.C.

   Delete: Brian Clay Tarver

5. Bachelors of Arts (Engineering)

   Delete: James Hampton Baker
   Shivendra Chopra
   Theodore Tsu-Ta Ying

6. Bachelors of Mechanical Engineering (Engineering)

   Add: James Michael Kowalewski, of Baltimore, Md.

7. Bachelors of Music (Peabody)

Delete: Trent Xavier Johnson

8. Associates of Science (Continuing Studies)

Delete: Rodell Theodore McLaughlin
Albert Garfield Ringgold
Michael George Ryan, Jr.

9. Masters of Science (Continuing Studies)

Delete: Kathleen Linsley Davis
Teresa Santoro Hall
Patricia Anne Highland
Karen Lewald
Susan Clopein Mascaro
Joan N. Miller
Donna Marie Sherman
Demetra M. Spanos
Debra Stevenson
Mariam Ellen Taylor
Alexandra Thorn
Harry C. Walker, Jr.
Gail Bryant Wells

10. Masters of Administrative Science (Continuing Studies)

Delete: Charles Michael Briggs
Shirley Jacqueline Smith
Janice Louise Zacker

11. Certificates of Advanced Study (Continuing Studies)

Delete: Nettie Nevolia Baldwin

12. Masters of Music (Peabody)

Delete: Jonathan Leigh Parris

13. Masters of Arts (Advanced International Studies)

Add: Fernando J. Bautista, of Duitama, Colombia; B.A. University of Southern California, 1983.

Jennifer Lynn Bisgard, of Madison, Wisc.; B.A. University of Michigan, 1985.

Tai-sik Lee, of Seoul, Korea; B.A. Seoul National University, 1971.

Thomas Leonard Rogers, of Belvedere, Calif.; B.A. University of California at Berkely, 1981.

13. Master of Arts (Advanced International Studies), cont'd.

Delete:
Pal Aasmundrud
Victoria Afya Akyeampong
Oscar A. Alvarez
Allen Eric Appen
Ben Wade Armfield
Mahalil HJ. Baharam
Rachel Rima Bayly
Mitchell P. Benedict
Donna Lea Berg
Lisa C. Bjornson
Samuel Ezio Bozzolla
Karrye Yvonne Braxton
David L. Brickman
Elisa N. Brims
Pamela J. Buck
Katharine M. Campbell
Jenifer Casalvieri
Anne Clarac
Catherine I. Connor
Alison Leigh Davis
Rachel Ann de la Vega
Jeffrey L. Doidge
George Marc Edelson
Cemal Denizhan Erocal
Fermin Fautsch
David R. Feltman
Randy J. Freund
Gregg Howard Goldstein
Peter Daniel Graves
Richard Edward Greene
Elizabeth Ann Haines
Laura Anne Hastings
Rachel Amalie Hermann
Mark Kenneth Hermes
Jerry Roland Hobbs
Richard Franz Hoffman
Katherine Sailer Hunter
Susan Klavens Hutner
Donald Emil Jacobson
Karen L. Jurew Ware
Esther Puakela Kia'aina
Anne E. Lawrence
David Michael Layton
Margaret R. Leddy
David S. Levy
Alison Margaret Macdonald
Stacy Lynne Malkin
Jane Elizabeth Marcus
Geoffrey Kennedy Masukawa
William McGilvray
Alexander Andrew McPhail
James Chitoshi Mihori, Jr.
Edward Lloyd Mohr
Patricia A. Nelson
Sharynne George Nenon
Betsy London Nessen
Sachiko Ohi
Valerie Renee Ploumpis
Jennifer Puchta
William Ross Pumfrey
Richard Hawley Stevens Raiford
John Alan Redpath
David Blake Richter
Edmund M. Ruffin
Douglas Richmond Russell
Ann Shildneck
Gia Lynne Simms
J. R. Sirkin
James Baker Sitrick, Jr.
Elizabeth L. Stack
Constance Taube
Stephen William Thompson
Diana Gail Turecek
Ekaterina Alexander Uzlyan
Pamela Sue Viglielmo
Anne R. Weiner
Charles H. Wilbanks
Andrew P. Wylegala
Brian Paul Wynne

14. Masters of International Public Policy (Advanced International Studies)

Add: Mahalil HJ. Baharam, of Malacca, Malaysia; B.A. University of Mayala, 1977.

14. Masters of International Public Policy (Advanced International Studies), cont'd.

Delete: Zeng-xun An
Francis A. Kornegay, Jr.
Jacqueline Carole Rose
Hironaka Takada
Bernice Williams

15. Master of Arts in International Affairs (Advanced International Studies)

Delete: Francisco Maria Castiglioni

16. Masters of Civil Engineering (Engineering)

Add: George E. Wirth, of Cockeysville, Md.; B.S.E. The Johns Hopkins University, 1983.

17. Masters of Science (Engineering)

Add: Chun-Choy Chan, of Columbia, Md.; B.S. National Taiwan University, 1973; M.S. Cleveland State University, 1975. Computer Science.

Philip Lee Cory, of Gambrills, Md.; B.S. University of Maryland, 1982. Computer Science.

George William Hartwig, Jr., of Havre de Grace, Md.; B.S. University of Illinois, 1969. Computer Science.

Peter M. Hastings, of Edgewater, Md.; B.S. Michigan State University, 1984. Computer Science.

Herbert Hopkins Holland, Jr., of Aberdeen, Md.; B.S. Stanford University, 1968. Computer Science.

Scott R. Legrys, of Columbia, Md.; B.S. Virginia Polytechnic and State University, 1978. Technical Management.

Arvid E. Myers, of Laurel, Md.; B.S. Auburn University, 1973; M.S. The Johns Hopkins University, 1984. Numerical Science.

Farid Naffah, of Baltimore, Md.; B.S. Columbia University, 1976. Computer Science.

Timothy Robert Oechsler, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1981. Electrical Engineering.

17. Masters of Science (Engineering), cont'd.

Add: Michael Roch, of Baltimore, Md.; B.E.S. The Johns Hopkins University, 1983. Computer Science.

Charles Lynwood Roe, of Silver Spring, Md.; B.S. University of Maryland, 1984. Technical Management.

George Joseph Salvaggio, of Severna Park, Md.; B.S. Dickinson College, 1980. Computer Science.

Eric John Scheidker, of Silver Spring, Md.; B.S. University of Texas, 1981. Numerical Science.

William Barton Sessions, of Ellicot City, Md.; B.S. Auburn University, 1958; M.S. Georgia Institute of Technology, 1965. Numerical Science.

Andrew D. Silberstein, of Roslyn Heights, N.Y.; B.S.E. Rutgers University, 1982.

Charles Robert Smith, of Wheaton, Md.; B.S.E.E.T. Devry Institute of Technology, 1982. Computer Science.

Holly Ann Smith, of Fallston, Md.; B.S. Roanoke College, 1982. Computer Science.

Donald Suit, of Columbia, Md.; B.S. University of Maryland, 1981. Computer Science.

Delete: Etienne Max Deprit
Dung Anh Huynh
Edmund L. Laugel
Daniel J. Marinelli
Craig Hiatt Miller
Tri Luu Pham
Michael J. Salonish
Gregory B. Turetzky

18. Master of Science in Engineering (Engineering)

Add: Douglas Arthur Lawrence, of Norwalk, Conn.; B.S. Lehigh University, 1983. Electrical and Computer Engineering.

Jun Li, of Shanghai, China; B.Sc. National University of Defense Technology, 1981; M.S. Old Dominion University, 1985. Biomedical Engineering.

Delete: Ronald Anthony Dombro
Balrina Malik

19. Masters of Arts (Arts and Sciences)

Add: Brian Keith Brewer, of Barboursville, W. Va.; B.S. Marshall University, 1986. Chemistry.

Todd Lamar Graybill, of Manheim, Pa.; B.S. Juniata College, 1984. Chemistry.

Connie Belinda Grogan, of Cleveland, Ohio; B.A. Indiana University, 1983. Biology.

Christopher Reid Kincaid, of Topsfield, Mass.; B.A. Wesleyan University, 1983. Earth and Planetary Sciences.

Gang Ho Lee, of Chung Nam, Korea; B.S. Korea University, 1984. Chemistry.

Cherie Vaughn Miller, of Baltimore, Md.; B.A. Rollins College, 1977. Earth and Planetary Sciences.

Todd D. Nelson, of Rock Island, Ill. Chemistry.

Sandra Murray Reynolds, of Baltimore, Md.; B.A. Mt. St. Agnes College, 1967; M.Ed. Loyola College, 1970. Near Eastern Studies.

Johney Mancel Wages, Jr., of Tupelo, Miss.; B.S. Mississippi State University, 1983. Biology.

John Myles Wetzel, of Chesterhill, Ohio; B.S. Ohio University, 1982. Chemistry.

Delete: Katherine Ann Byse